

*Oracle Fusion Middleware 11gR1: Portal,
Forms, Reports and Discoverer(11.1.1.3.0)
Certification with SUSE Linux Enterprise
Server 11 SP2 (RC3) – x86_64*

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Introduction

This documentation provides the details for validate Oracle Fusion Middleware 11gR1: Portal, Forms, Reports and Discoverer(11.1.1.3.0) on SLES 11 SP2 OS. Here, x86_64 version of both Oracle Portal...Discoverer Server and SUSE Linux Enterprise Server is used. Similar steps applies to other platforms(x86, ia64, etc.). If you encounter any problem or have general question, please post your query to suse-oracle@listx.novell.com.

(**Note:**The oracle official product documentation available at:

<http://www.oracle.com/technetwork/middleware/docs/middleware-093940.html>)

Hardware and Software Requirements

Hardware Requirements

Requirement	Minimum
RAM	1024 MB
Swap space	Approx. twice the size of RAM
Disk space in /tmp	1024 MB
Disk space for software files	4 GB
Disk space for database files	1.7 GB

Software Requirements

SuSE

- SUSE Linux Enterprise Server 11 Service Pack 2 RC3 (x86_64)
(<http://download.suse.de/install>)

Oracle

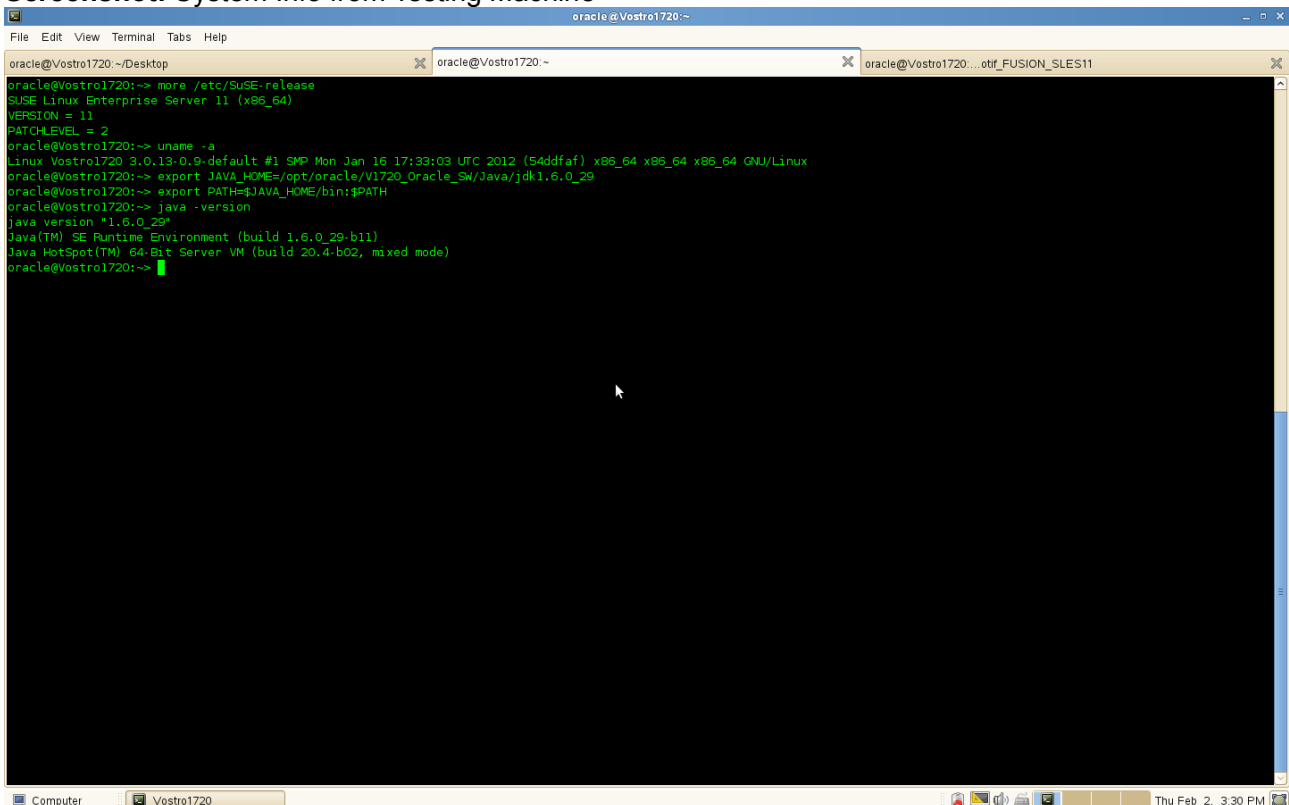
- Oracle Database 11gR2(11.2.0.1.0) (x86_64)
(<http://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html>)
- Repository Creation Utility(11.1.1.3.3) (x86)
(<http://www.oracle.com/technetwork/middleware/weblogic/downloads/index.html>)
- Oracle Internet Directory 10.1.4.0.1 and Patchset 10.1.4.3 (x86)
(<http://www.oracle.com/technetwork/middleware/ias/downloads/101401-099957.html>)
Patchset download from: (<https://support.oracle.com>)
- jdk-6u29-linux-x64
(<http://www.oracle.com/technetwork/java/javase/downloads/index.html>)
- WebLogic Server 10.3.3(Generic installer)
(<http://www.oracle.com/technetwork/middleware/downloads/fmw-11-download-092893.html>)
- Portal, Forms, Reports, and Discoverer (11.1.1.2.0) (x86_64)
(<http://www.oracle.com/technetwork/middleware/downloads/fmw-11-download-092893.html>)

- Portal, Forms, Reports, and Discoverer (11.1.1.3.0) (x86_64)
(<http://www.oracle.com/technetwork/middleware/downloads/fmw-11-download-092893.html>)

Testing Machine information

Dell Vostro 1720 Laptop
CPU: Intel(R) Core(TM) 2 Duo CPU T5870@2.00GHz
Memory: 4GB
Hard Disk: 160GB
OS: SUSE Linux Enterprise Server 11 SP2 RC3(x86_64)
Java: Oracle jdk-6u29-linux-x64
Openmotif Library: openmotif_FUSION_SLES11(x86_64)

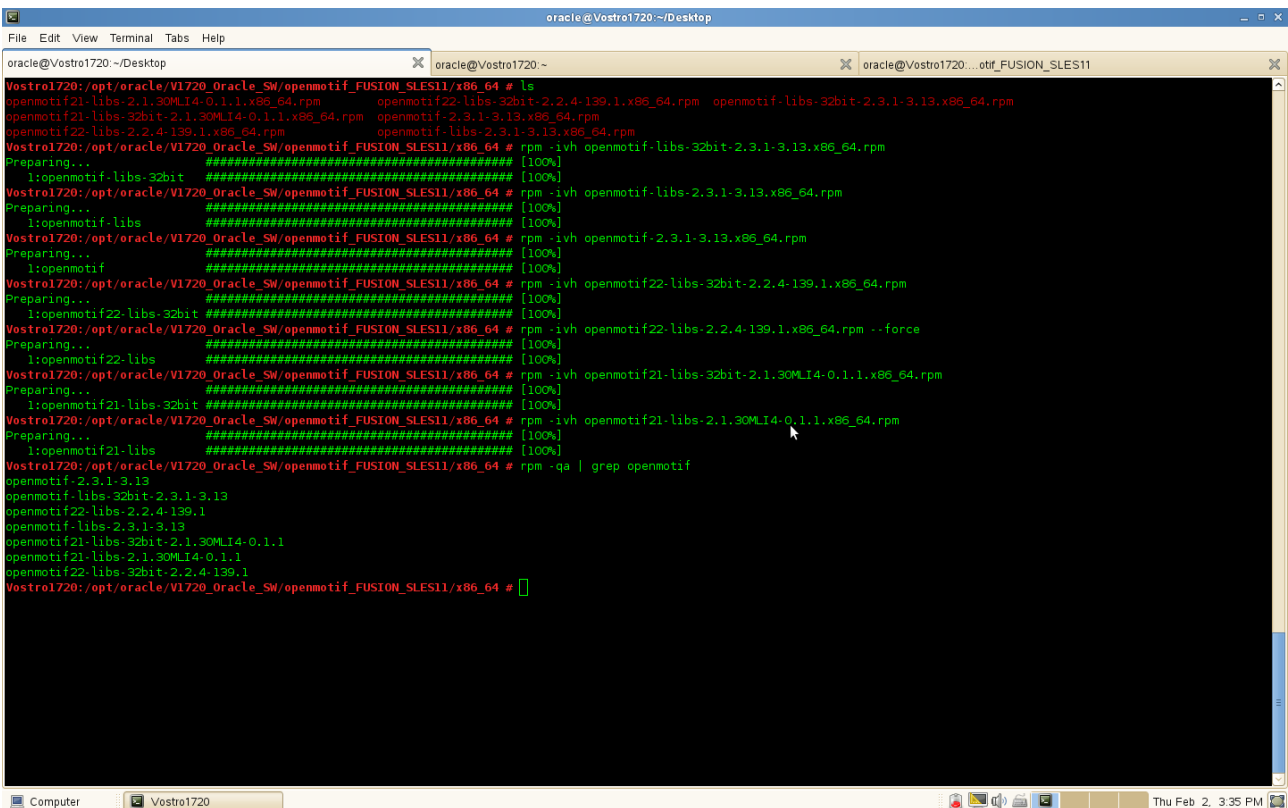
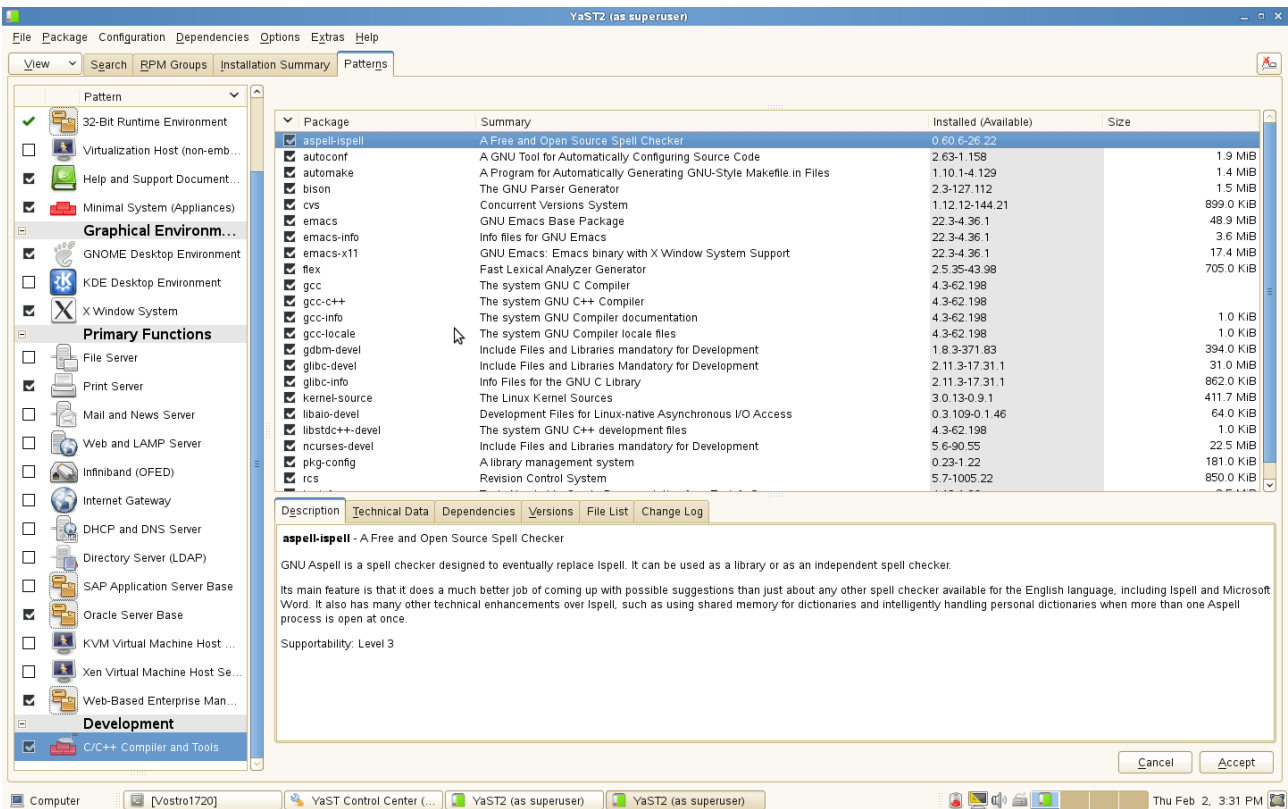
Screenshot: System Info from Testing Machine



```
oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~
oracle@Vostro1720:~$ more /etc/SuSE-release
SUSE Linux Enterprise Server 11 (x86_64)
VERSION = 11
PATCHLEVEL = 2
oracle@Vostro1720:~$ uname -a
Linux Vostro1720 3.0.13-0.9-default #1 SMP Mon Jan 16 17:33:03 UTC 2012 (54ddfaf) x86_64 x86_64 x86_64 GNU/Linux
oracle@Vostro1720:~$ export JAVA_HOME=/opt/oracle/V1720_Oracle_SM/Java/jdk1.6.0_29
oracle@Vostro1720:~$ export PATH=$JAVA_HOME/bin:$PATH
oracle@Vostro1720:~$ java -version
java version "1.6.0_29"
Java(TM) SE Runtime Environment (build 1.6.0_29-b11)
Java HotSpot(TM) 64-Bit Server VM (build 20.4-b02, mixed mode)
oracle@Vostro1720:~$
```

(Note: If "Oracle Server Base" as an additional installation with OS. Please make sure the following files not be present.

```
# mv /etc/profile.d/oracle.csh /etc/profile.d/oracle.csh.bak
# mv /etc/profile.d/oracle.sh /etc/profile.d/oracle.sh.bak
# mv /etc/profile.d/alljava.csh /etc/profile.d/alljava.csh.bak
# mv /etc/profile.d/alljava.sh /etc/profile.d/alljava.sh.bak
)
```

Prerequisites

1. Oracle Database 11gR2 Installation

1-1. Oracle Database 11gR2 installed on a separate SLES 11 SP2 (x86-64) OS. The installation guide please refer to: (http://ftp.novell.com/partners/oracle/docs/11gR2_sles11_sp1_install.pdf)

1-2. Access to <https://E5400-DB.site:1158/em> after the database setup completed. The EM page will be displayed as shown below.

Screenshot: View Oracle Database 11gR2 Enterprise Manager

The screenshot displays the Oracle Enterprise Manager 11g console for database instance 'orcl'. The interface includes a navigation menu with options like Home, Performance, Availability, Server, Schema, Data Movement, and Software and Support. The main content area is divided into several sections:

- General:** Shows the instance status as 'Up' since Oct 17, 2011 5:36:39 PM CST. Instance Name is 'orcl', Version is '11.2.0.1.0', Host is 'E5400-DB.site', and Listener is 'LISTENER_E5400-DB.site'.
- Host CPU:** A bar chart showing CPU usage for 'Other' and 'orcl'. The load is 0.17 and paging is 0.00.
- Active Sessions:** A bar chart showing session counts for 'Wait', 'User I/O', and 'CPU'. The core count is 2.
- SQL Response Time:** A bar chart comparing 'Latest Collection (seconds)' and 'Reference Collection (seconds)'. The SQL Response Time (%) is 125.23.
- Diagnostic Summary:** Lists ADDM Findings (0), Alert Log (No OPA errors), Active Incidents (0), and Key SQL Profiles (0).
- Space Summary:** Shows Database Size (1.454 GB), Problem Tablespaces (0), Segment Advisor Recommendations (0), Policy Violations (0), and Dump Area Used (15%).
- High Availability:** Lists Console (n/a), Oracle Restart (Z), Instance Recovery Time (Z), Last Backup (n/a), Usable Flash Recovery Area (100%), and Flashback Database Logging (Disabled).
- Alerts:** Shows 0 Critical and 0 Warning alerts. A table with columns for Severity, Category, Name, Impact, Message, and Alert Triggered is displayed.
- Policy Violations:** Shows 2 Critical Rules Violated and 0 Critical Security Patches. Compliance Score (%) is 96.

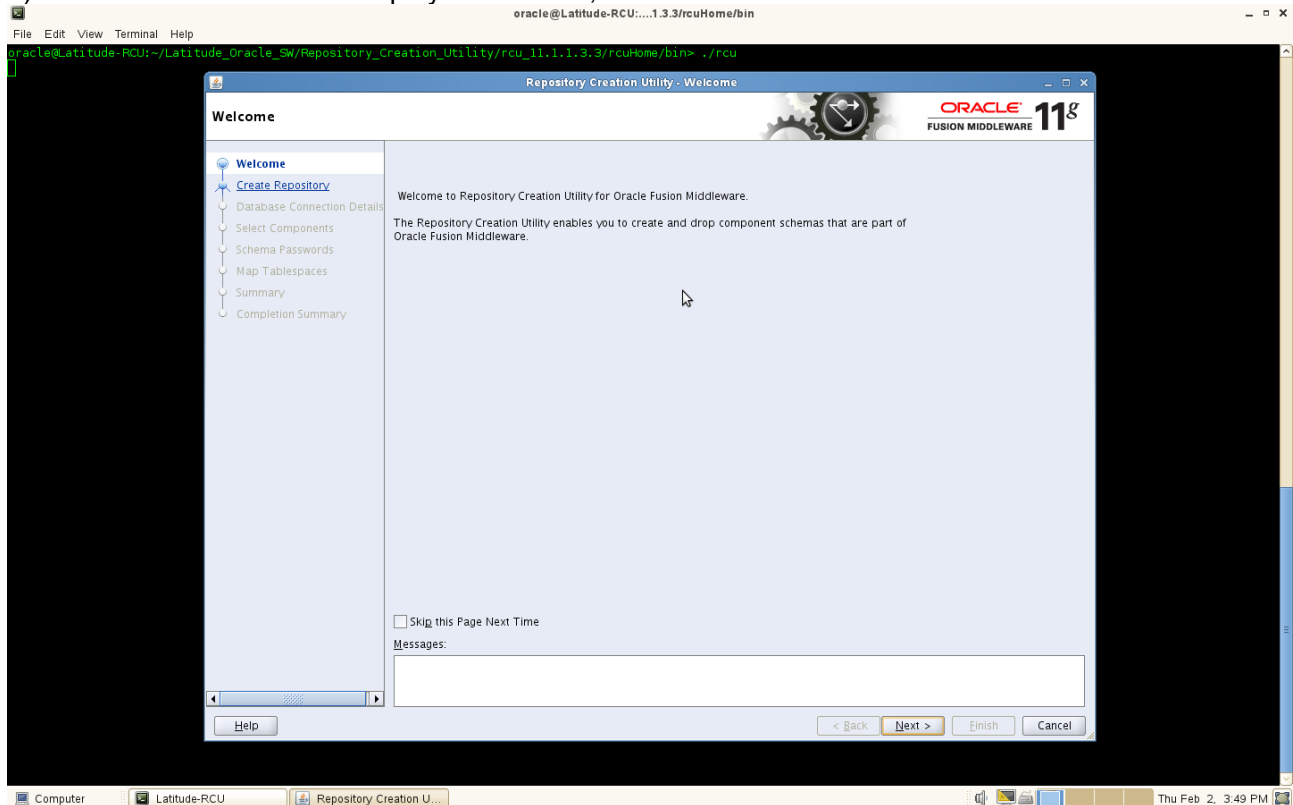
2. Schema creation using RCU (Repository Creation Utility)

2-1. After successful installed Oracle Database 11gR2 , download the right RCU for 32-bit OS on a 32-bit SLES 11 SP2 server. (RCU can be downloaded from the URL: <http://www.oracle.com/technetwork/middleware/weblogic/downloads/index.html>)

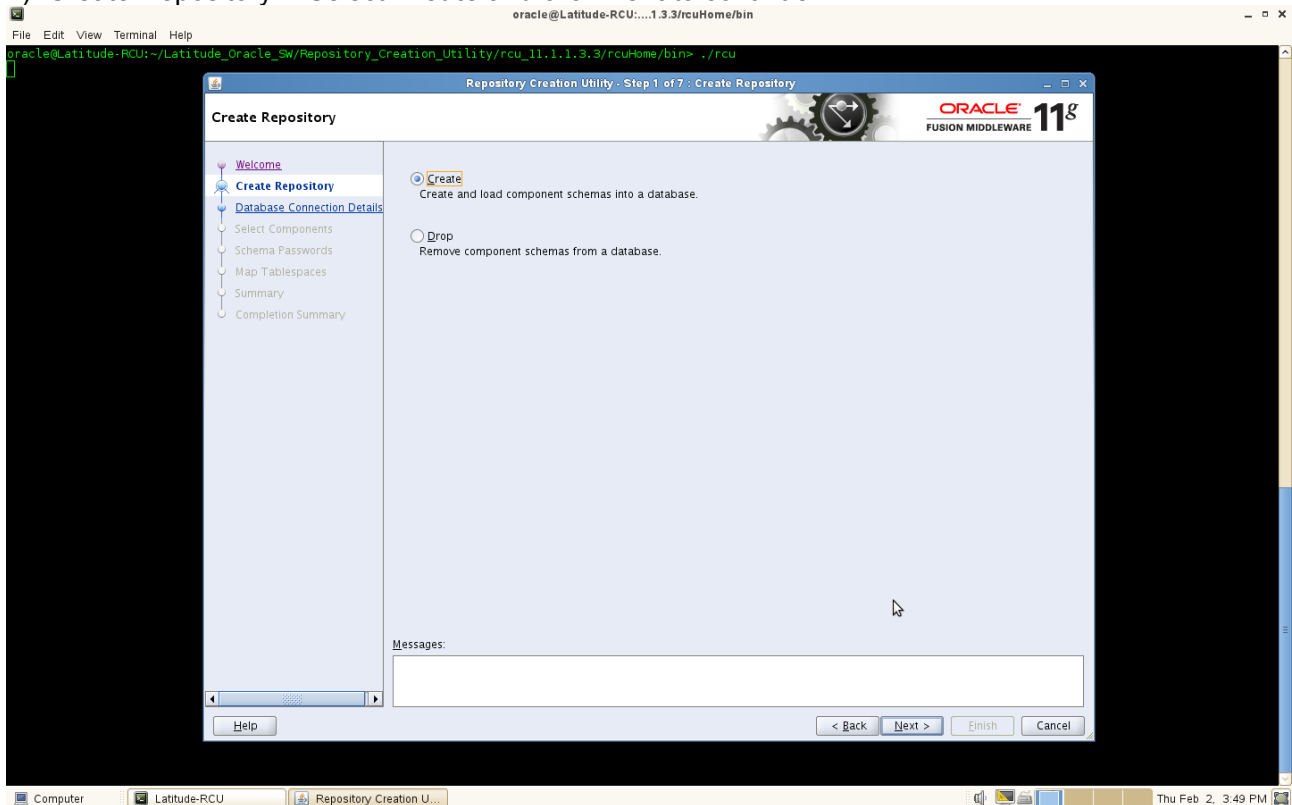
2-2. Extract the downloaded RCU installer and go to the bin folder and run the rcu file as `./rcu`

Install Flow:

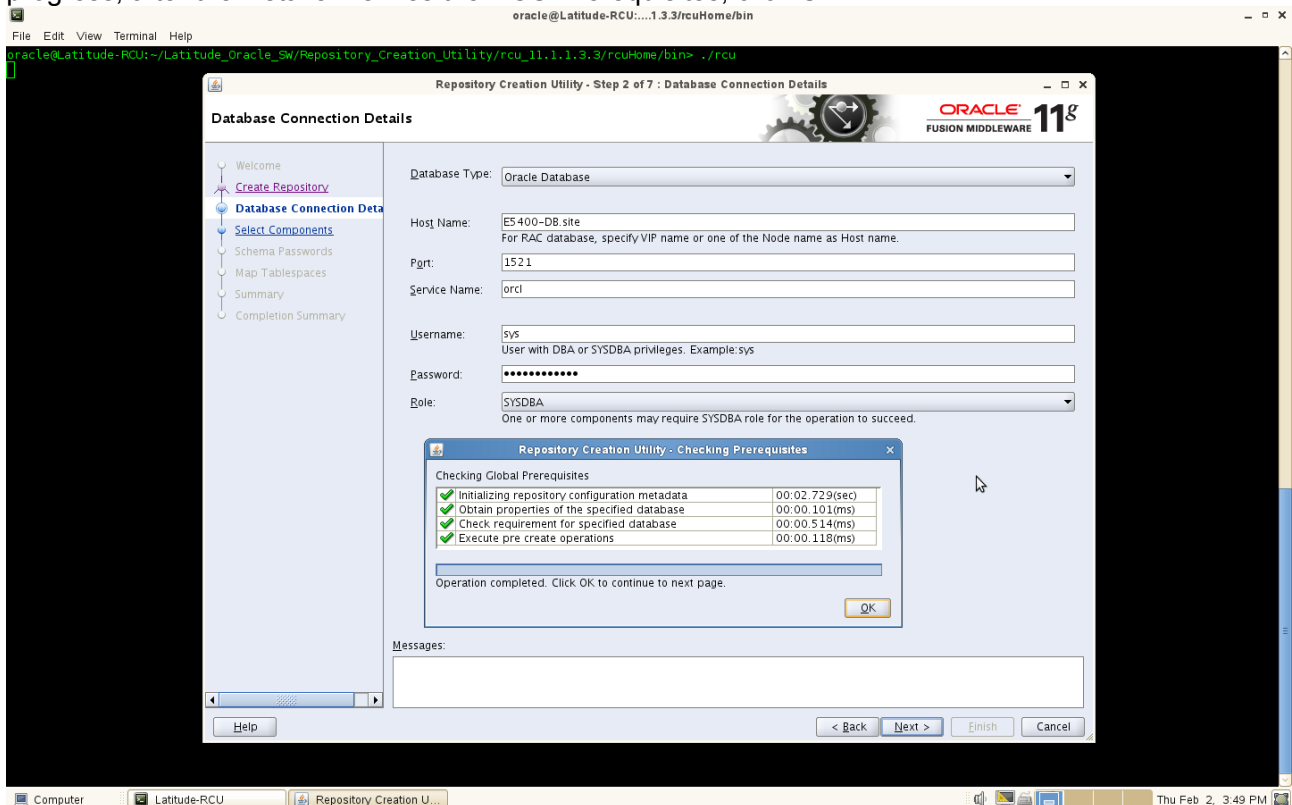
1). Welcome Screen will be displayed as below, Click **Next** to continue.



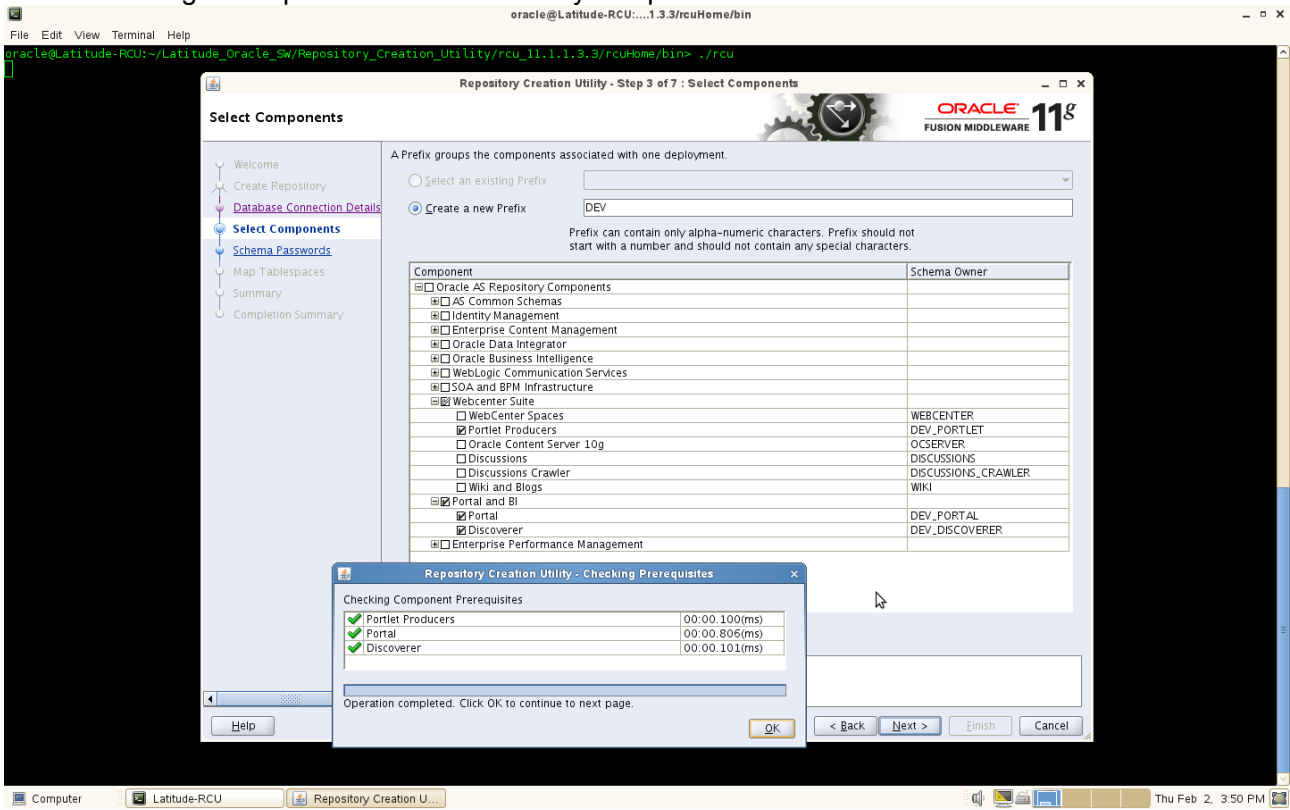
2). Create Repository -- Select **Create** and click **Next** to continue.



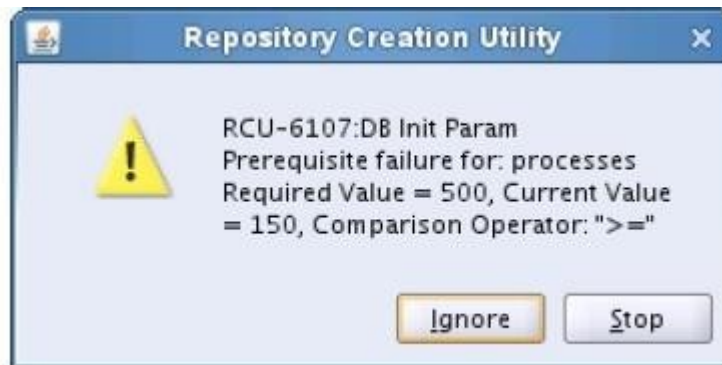
3). For Database Connection Details, provide the following details like, Oracle DB Host Name, Port Number, Service Name, User Name, & Password, and click **Next**. The installer will run auto check progress, after the installer verifies the RCU Prerequisites, click **OK**.



4). For Select Components, create a new Prefix and select the required components like **'Portlet Producers'** under **'Webcenter Suite'**, **'Portal'** and **'Discoverer'** under **'Portal and BI'**, and click **Next**. Checking Prerequisites will automatically completed. Click **OK** to continue.

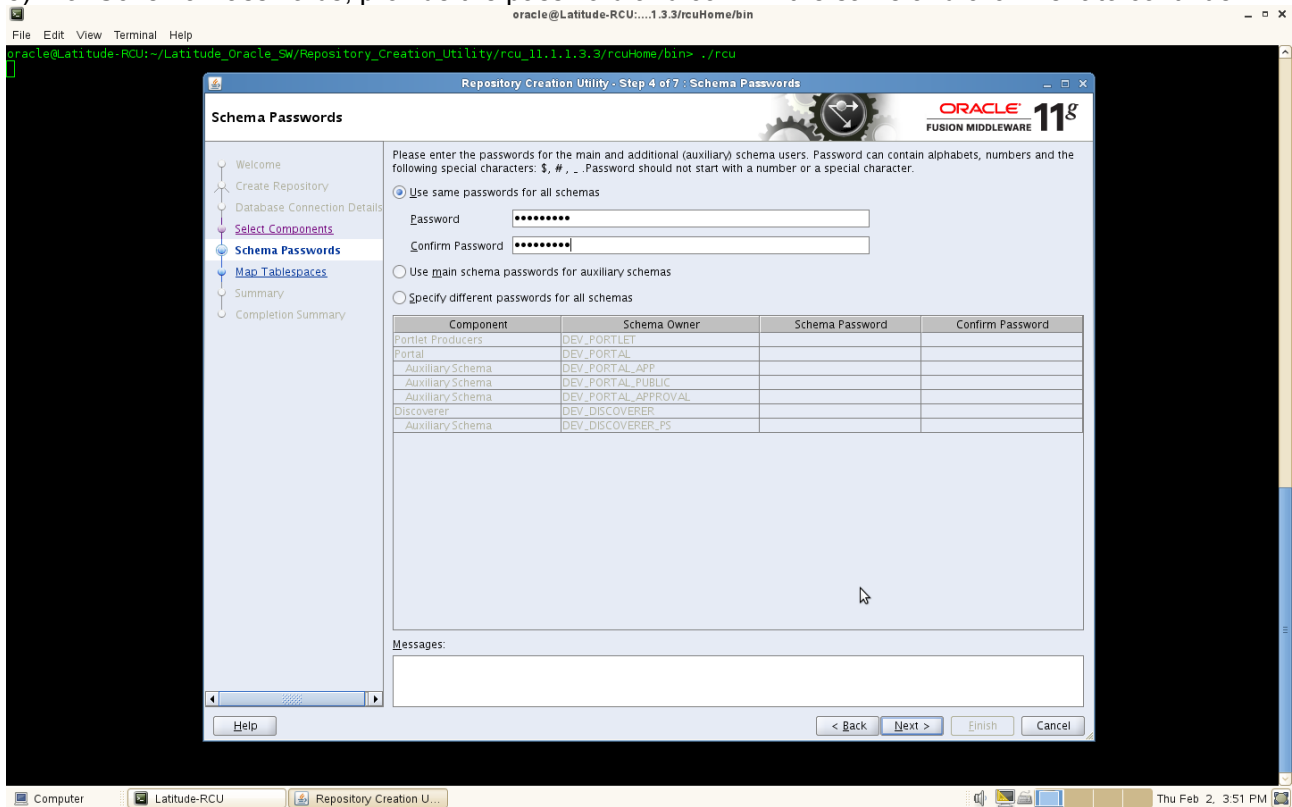


(Note: If an error message displayed as shown below:

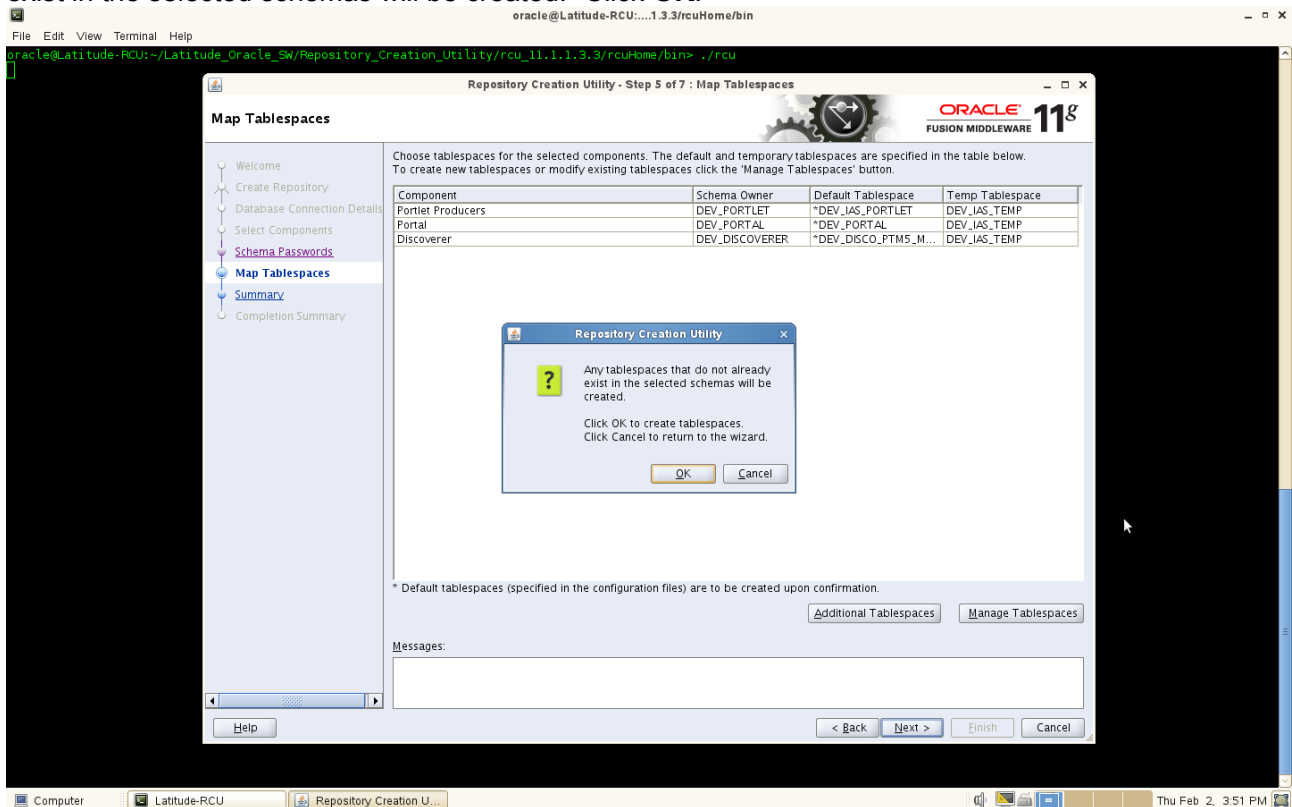


Please login to DB server as **root user** and execute the SQL command:
"alter system set processes=500 scope=spfile;" and **"alter system set open_cursors=500 scope=spfile;"** bounce the Database, and click **Ignore**.
)

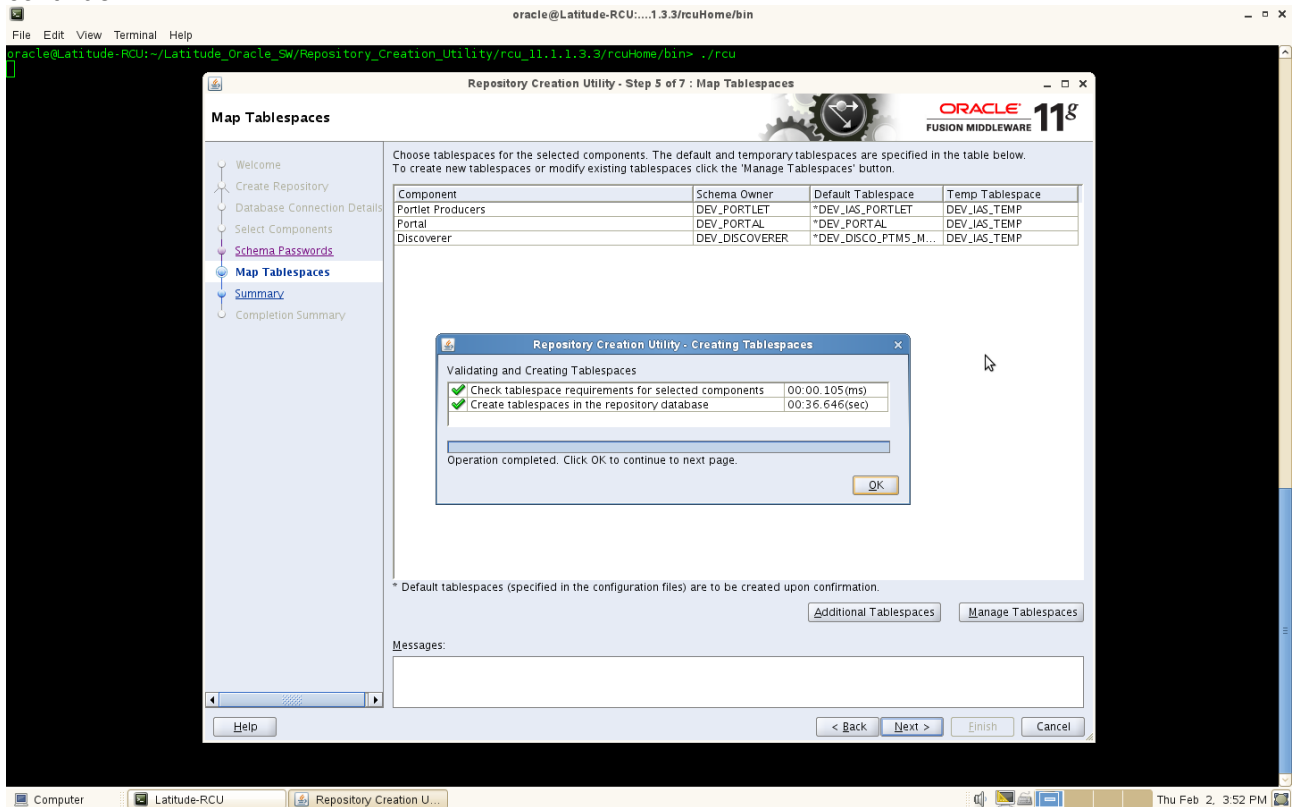
5). For Schema Passwords, provide the password and confirm the same and click **Next** to continue.



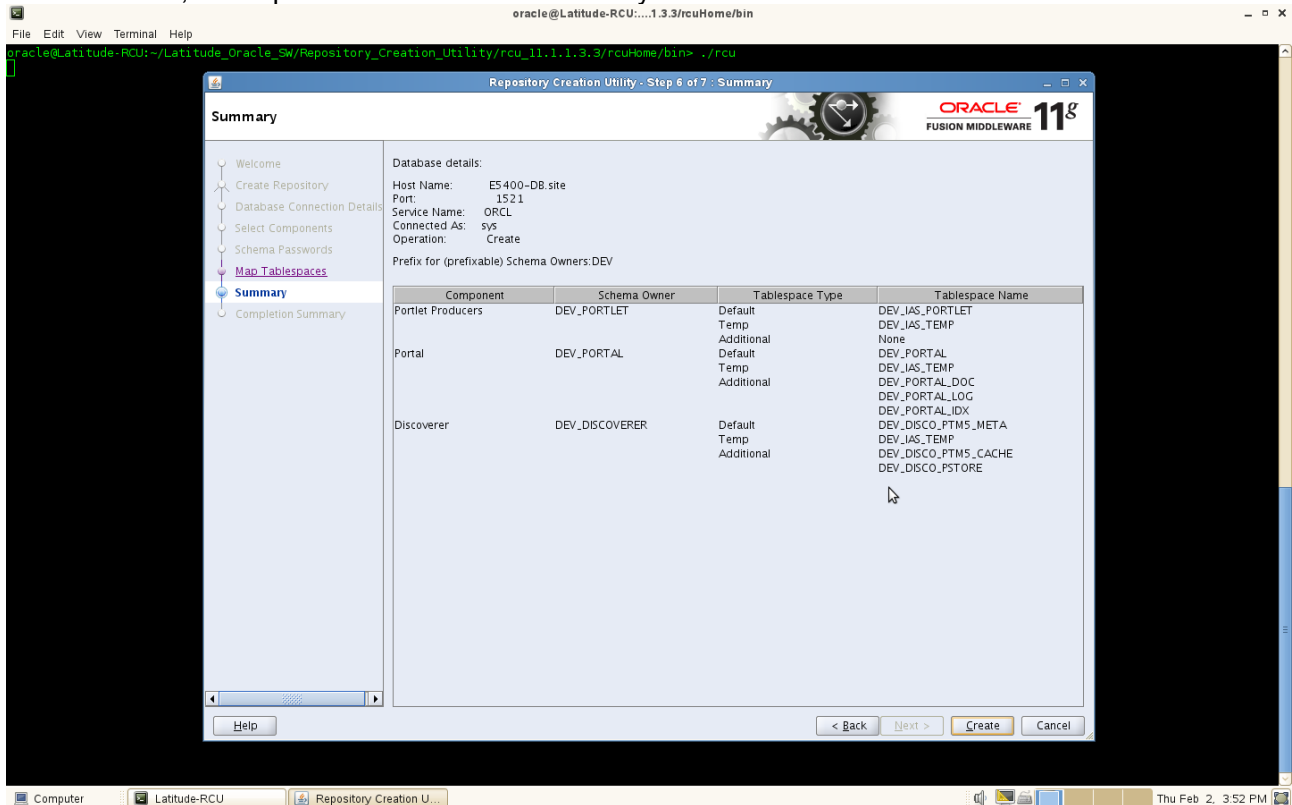
6). Map Tablespaces -- An alert message will be displayed as "Any Tablespaces that do not already exist in the selected schemas will be created." Click **OK**.



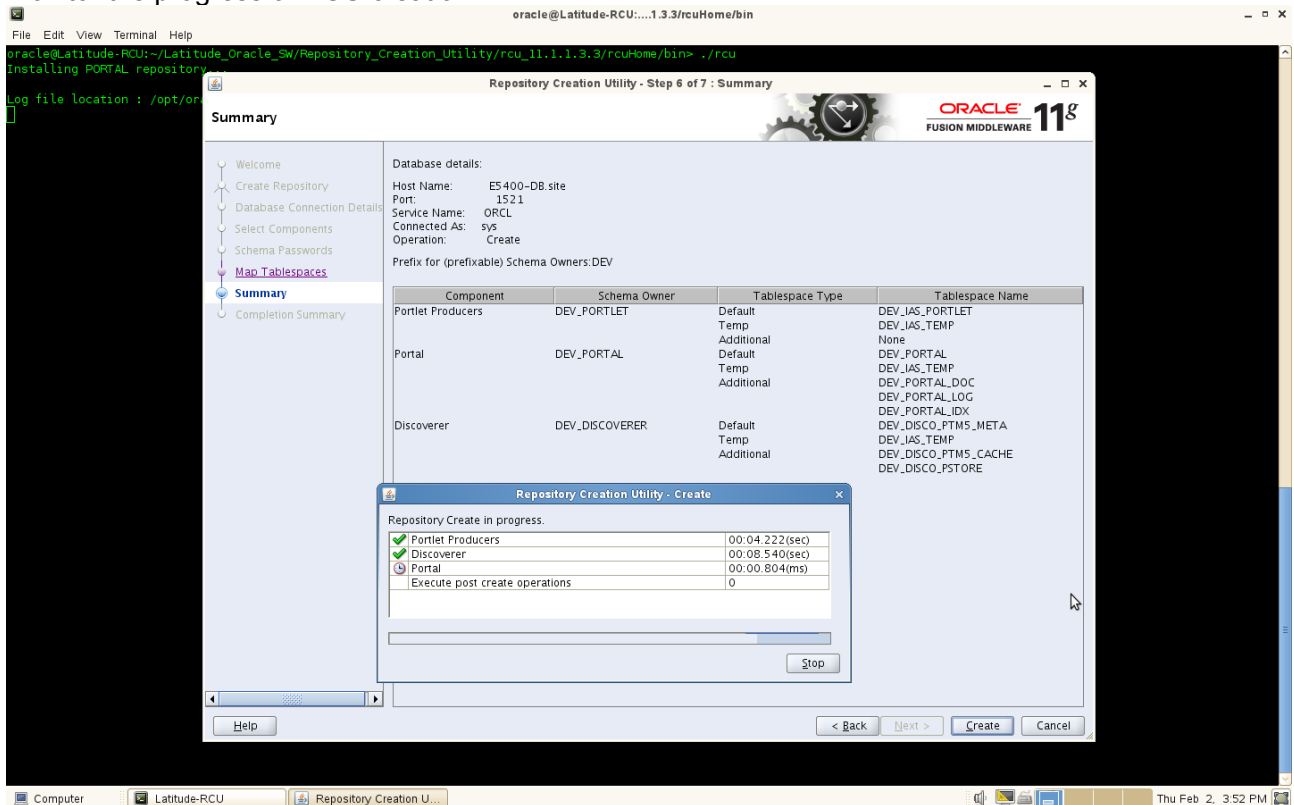
The process will auto creating Tablespaces. After the operation completed, click **OK** and **Next** to continue.



7). Summary -- A summary will be displayed with respective Host Name, Port No., Service Name, Connected As, and Operation. Review the summary details and click **Create**.



Monitor the progress of RCU creation.



8). Completion Summary will be displayed, click **Close** to dismiss the screen.



3. Oracle Internet Directory 10.1.4.0.1 and Patchset 10.1.4.3 Installation

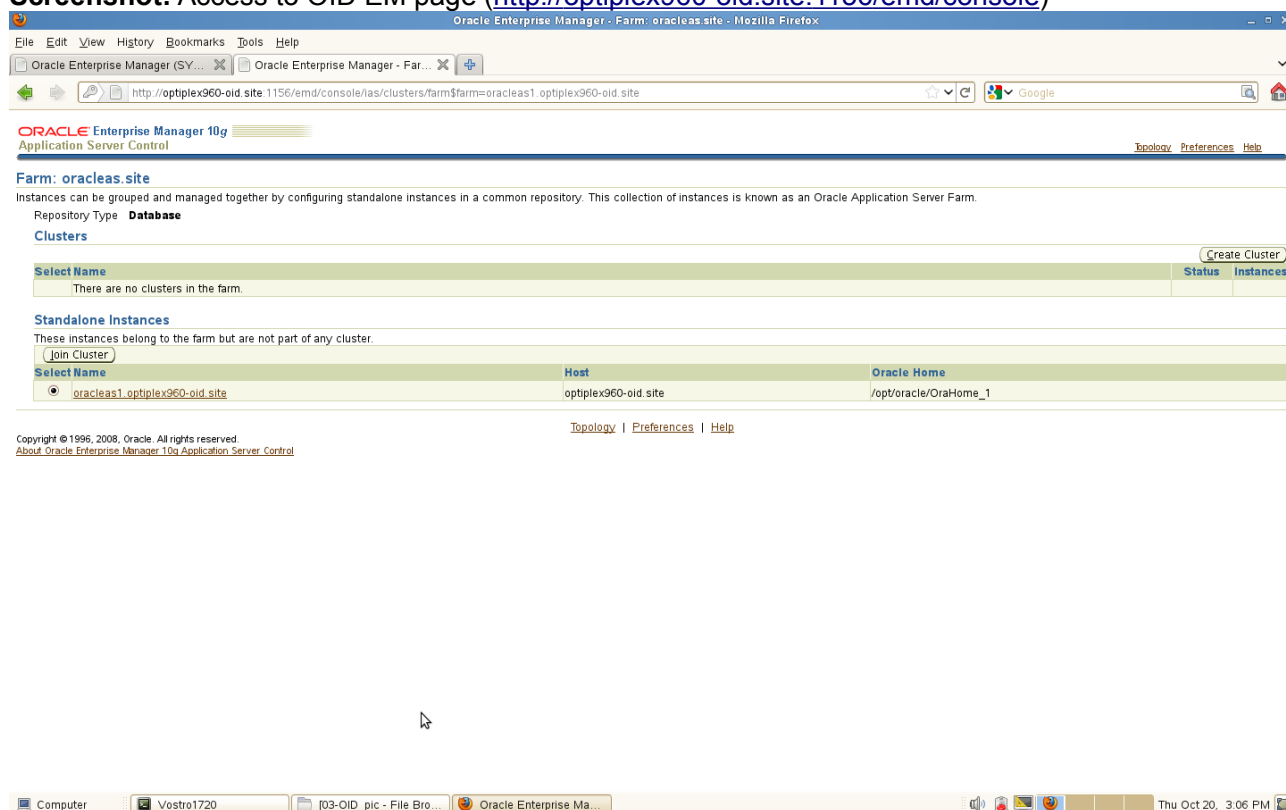
3-1. Login to a separate SLES10 SP2 (32-bit) OS as a non-admin user, then download Oracle Internet Directory from <http://www.oracle.com/technetwork/middleware/ias/downloads/101401-099957.html> and Patchset from <https://support.oracle.com>

Download the packages as shown below:

```
as_linux_x86_oim_oif_101401_disk1.cpio
as_linux_x86_oim_oif_101401_disk1.cpio
p7215628_101430_LINUX.zip
```

3-2. Follow the installation instructions in the url: (http://download.oracle.com/docs/cd/B28196_01/install.1014/b28194/title_linux.htm) for OID installation.

Screenshot: Access to OID EM page (<http://optiplex960-oid.site:1156/emd/console>)



Oracle Fusion Middleware 11gR1 Certification with SLES 11 SP2

Oracle Enterprise Manager - Application Server: oracleas1.optiplex960-oid.site - Mozilla Firefox

Oracle Enterprise Manager (SY...) Oracle Enterprise Manager - Ap...

http://optiplex960-oid.site:1156/emd/console/ias/applicationServer\$farm=oracleas1.optiplex960-oid.site\$type=oracle*_ias\$target=oracleas1.optiplex960-oid.site

ORACLE Enterprise Manager 10g
Application Server Control

Application Server: oracleas1.optiplex960-oid.site

Home J2EE Applications Ports Infrastructure Backup/Recovery

Page Refreshed Oct 20, 2011 3:59:56 PM

General Stop All Restart All

Status: **Up**
Host: optiplex960-oid.site
Version: 10.1.4.3.0
Installation Type: Identity Management and Metadata Repository
Oracle Home: /opt/oracle/OraHome_1
Farm: oracleas1.site

CPU Usage

- Application Server (0%)
- Idle (0%)
- Other (100%)

Memory Usage

- Application Server (30% 281MB)
- Free (4% 35MB)
- Other (66% 628MB)

System Components Enable/Disable Components Create OC4J Instance

Select All | Select None

Select Name	Status	Start Time	CPU Usage (%)	Memory Usage (MB)
<input type="checkbox"/> HTTP_Server	↑	Oct 11, 2011 10:09:50 PM	0.02	76.49
<input type="checkbox"/> OC4J_SECURITY	↑	Oct 11, 2011 10:09:52 PM	0.04	55.03
<input type="checkbox"/> oracleas1.optiplex960-oid.site_DAS	↑	N/A	N/A	N/A
<input type="checkbox"/> oracleas1.optiplex960-oid.site_DIP	↑	N/A	N/A	N/A
<input type="checkbox"/> oracleas1.optiplex960-oid.site_LDAP	↑	Oct 11, 2011 10:09:49 PM	0.00	7.83
<input type="checkbox"/> Single_Sign-On_orasso	↑	N/A	N/A	N/A
<input type="checkbox"/> Management	↑	Mar 23, 2010 5:24:39 PM	0.04	141.32

TIP This table contains only the enabled components of the application server. Only components that have the checkbox enabled can be started or stopped.

Related Links

http://optiplex960-oid.site:1156/emd/console/ias/application...id.site\$target=oracleas1.optiplex960-oid.site?event=doLoad

Computer Vostro1720 [03-OID_pic - File Bro...] Oracle Enterprise Ma... Thu Oct 20, 3:07 PM

Oracle Enterprise Manager - Application Server: oracleas1.optiplex960-oid.site - Mozilla Firefox

Oracle Enterprise Manager (SY...) Oracle Enterprise Manager - Ap...

http://optiplex960-oid.site:1156/emd/console/ias/ports?type=oracle_ias\$farm=oracleas1.optiplex960-oid.site&target=oracleas1.optiplex960-oid.site

ORACLE Enterprise Manager 10g
Application Server Control

Application Server: oracleas1.optiplex960-oid.site

Home J2EE Applications Ports Infrastructure Backup/Recovery

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The Port in Use column is empty if the port is not defined or if the component is not running. The Configure column contains an icon if you can configure the port using Enterprise Manager. Otherwise, you must refer to the component documentation. Regardless of how you modify the ports, you must consider any port dependencies before modifying a port value. More information [About Oracle Application Server Port Dependencies](#)

Component	Type	Port In Use	Suggested Port Range	Configure
DCM Object Cache	Cache Discovery Port		7100-7199	
Log Loader	Management	44000	44000-44099	
OC4J_SECURITY	RMI	12401	12401-12500	
OC4J_SECURITY	JMS	12601	12601-12700	
OC4J_SECURITY	AJP	12501	12501-12600	
OPMN	ONS Remote	6200	6200-6299	
OPMN	ONS Local	6101	6100-6199	
OPMN	ONS Request	6003	6003-6099	
Oracle Enterprise Manager 10g	Application Server Control	1156	1156,1810-1829	
Oracle Enterprise Manager 10g	Oracle Management Agent	1157	1157,1830-1849	
Oracle Enterprise Manager 10g	Application Server Control RMI	1850	1850-1869	
Oracle HTTP Server	Diagnostic	7200	7200-7299	
Oracle HTTP Server	Listen	7777	80,7777-7877	
Oracle HTTP Server	Listen (SSL)		443,4443-4543	
Oracle Internet Directory	Non SSL Port	389	13060-13129	
Oracle Internet Directory	SSL Port	636	13130-13199	

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About Oracle Enterprise Manager 10g Application Server Control

http://optiplex960-oid.site:1156/emd/console/ias/application...le*_ias\$target=oracleas1.optiplex960-oid.site?event=doLoad

Computer Vostro1720 [03-OID_pic - File Bro...] Oracle Enterprise Ma... Thu Oct 20, 3:07 PM

4. Java Installation

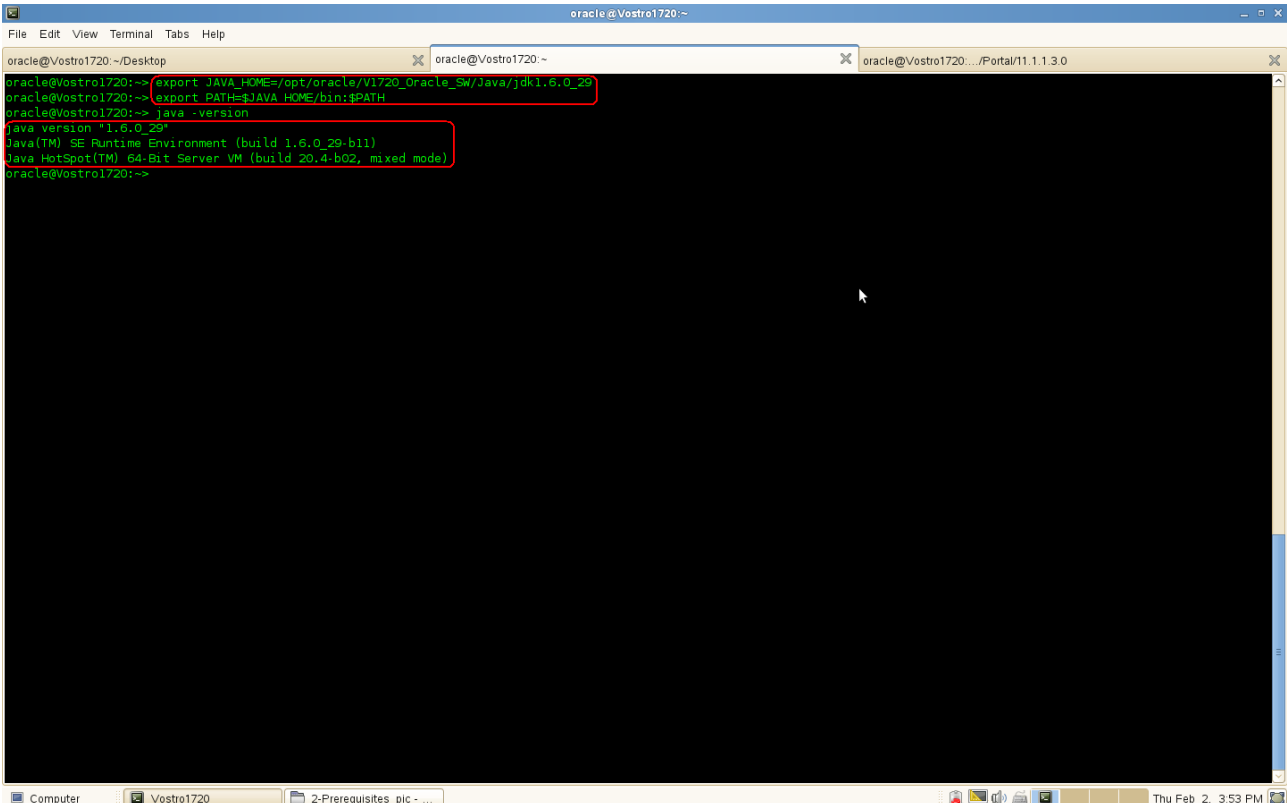
4-1. Login to the SLES 11 SP2 64-bit OS (Testing Machine which Portal...Discoverer would be installed.) as a non-admin user. Download the latest JDK from the URL:

(<http://www.oracle.com/technetwork/java/javase/downloads/index.html>)

4-2. Chmod +x **jdk-6u29-linux-x64.bin**, then execute for JDK installation.

4-3. Set JAVA_HOME and PATH variables, then check the version information.

Screenshot: Java installation info



```
oracle@Vostro1720:~> export JAVA_HOME=/opt/oracle/V1720_Oracle_Sm/Java/jdk1.6.0_29
oracle@Vostro1720:~> export PATH=$JAVA_HOME/bin:$PATH
oracle@Vostro1720:~> java -version
java version "1.6.0_29"
Java(TM) SE Runtime Environment (build 1.6.0_29-b11)
Java HotSpot(TM) 64-Bit Server VM (build 20.4-b02, mixed mode)
oracle@Vostro1720:~>
```

5. WebLogic Server Installation

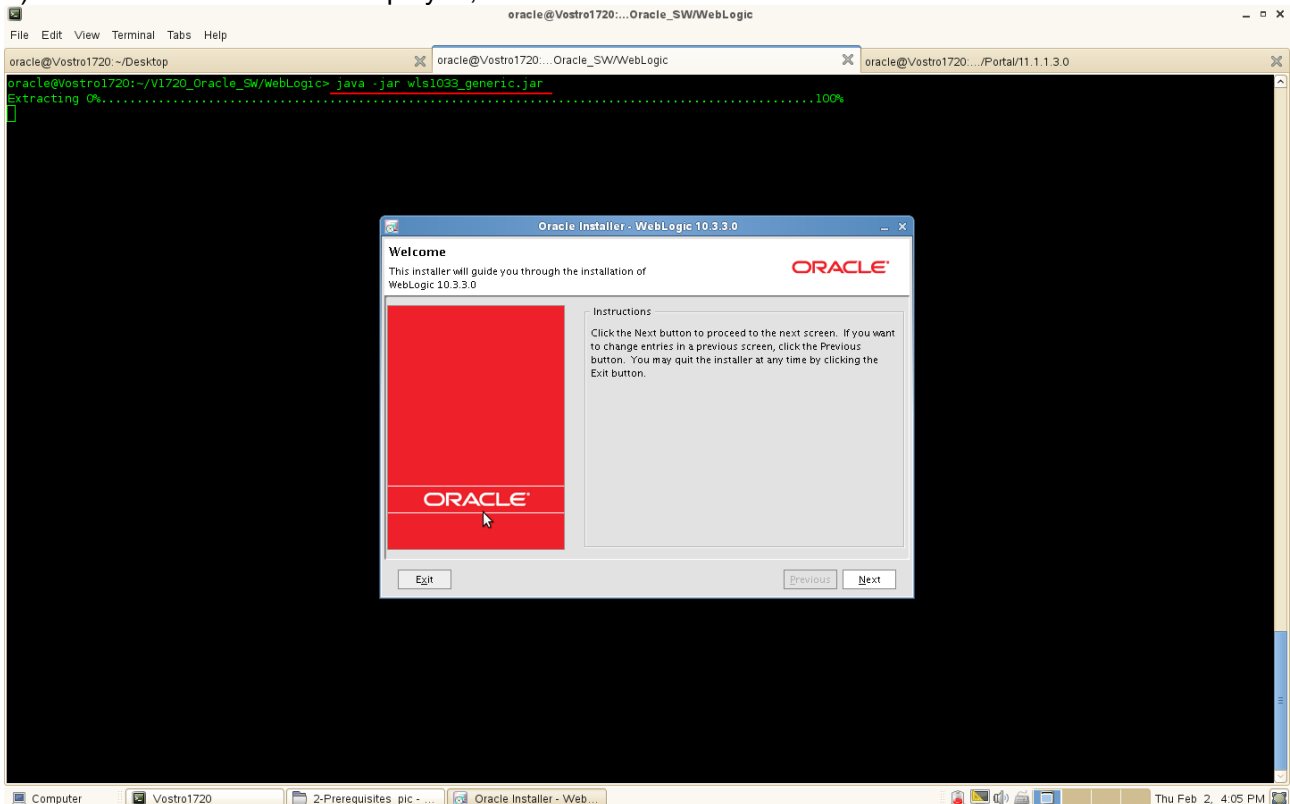
5-1. Login as the same non-admin user which was used for Java installation.

5-2. Download Oracle WebLogic 10.3.3 generic installer from:
(<http://www.oracle.com/technetwork/middleware/downloads/fmw-11-download-092893.html>)

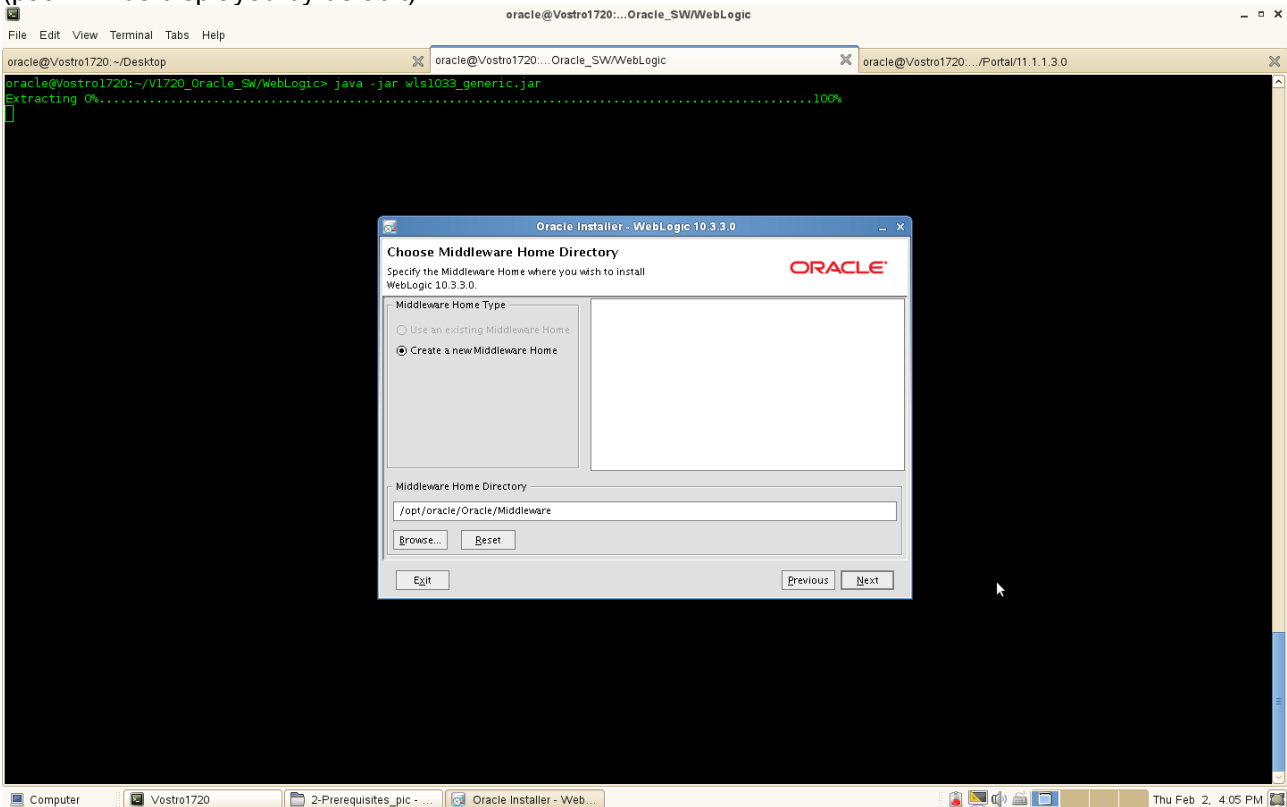
5-3. Execute the WebLogic generic installer using the command `java -jar <WebLogic jar installer>`.

Install Flow:

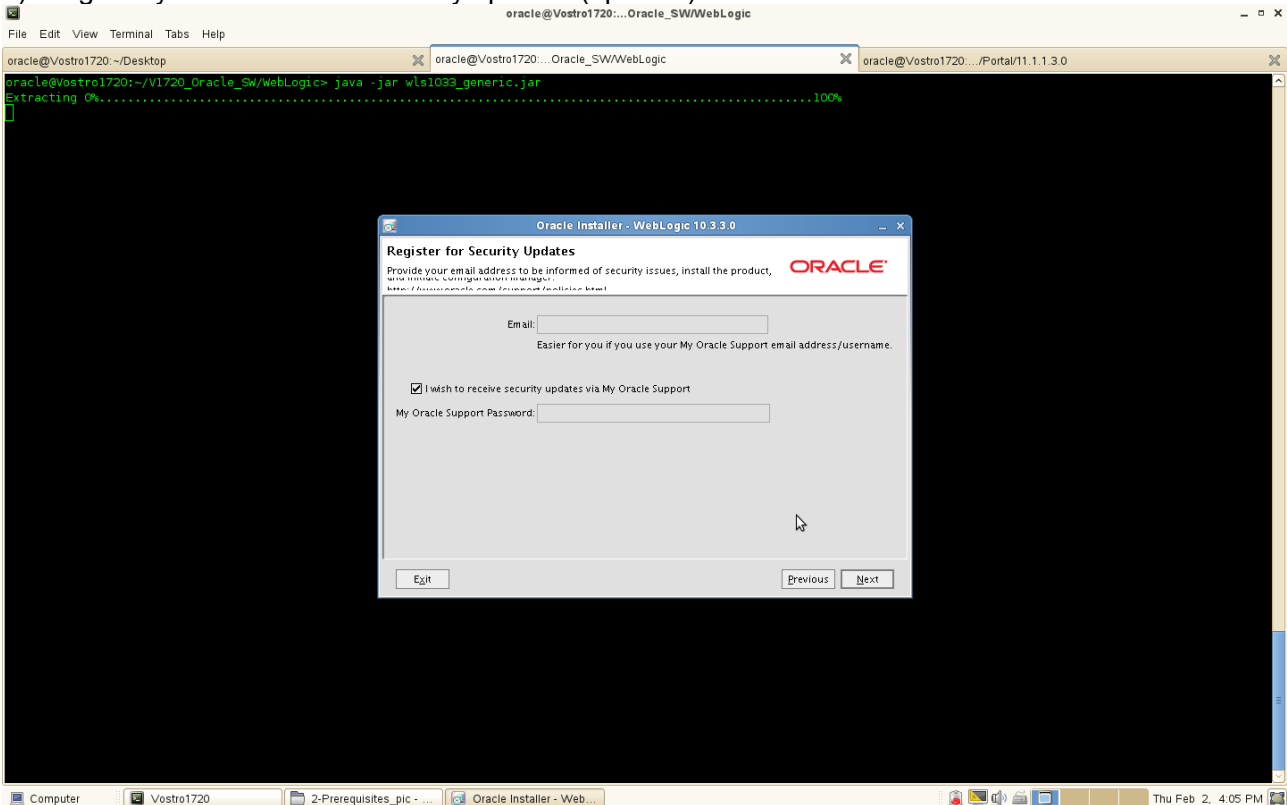
1). Welcome Screen will be displayed, click **Next** to continue.



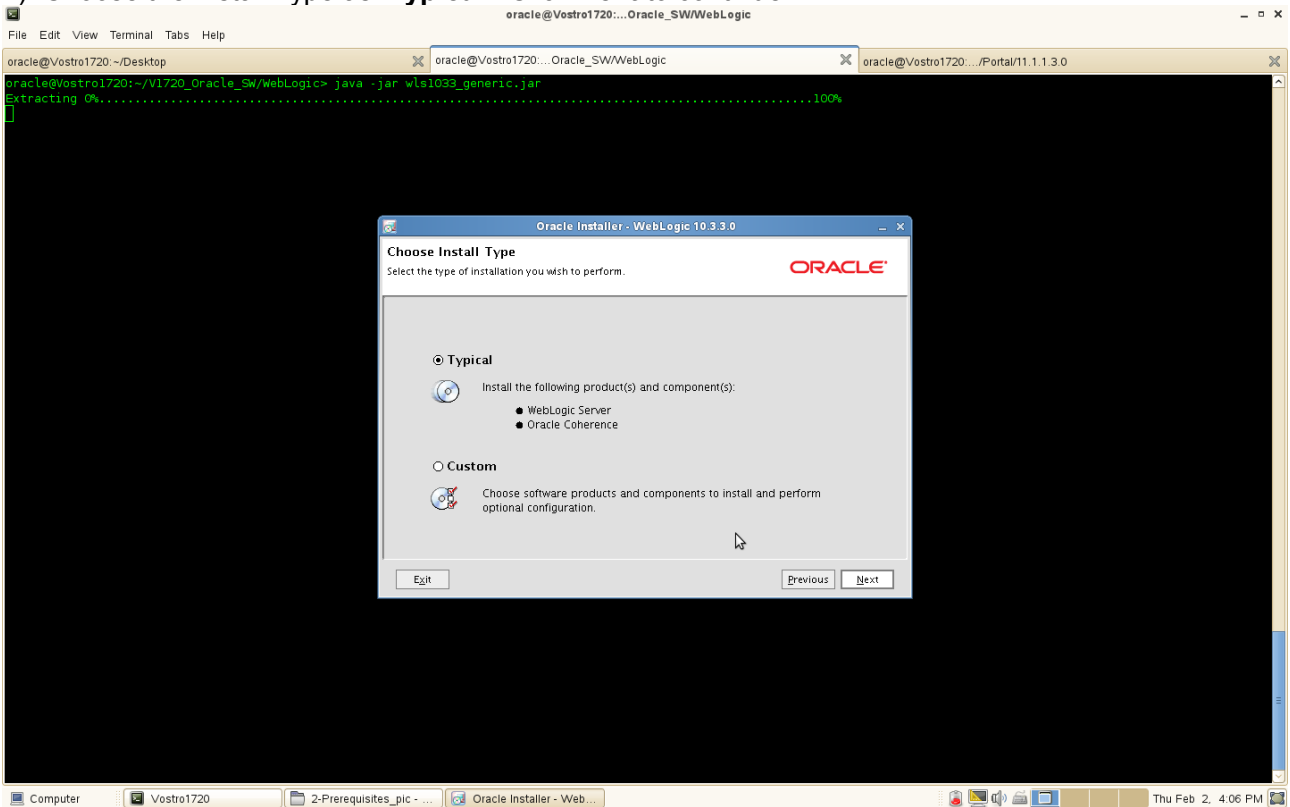
2). Select “Create a new Middleware Home” and give the path of the Middleware Home Directory (path will be displayed by default).



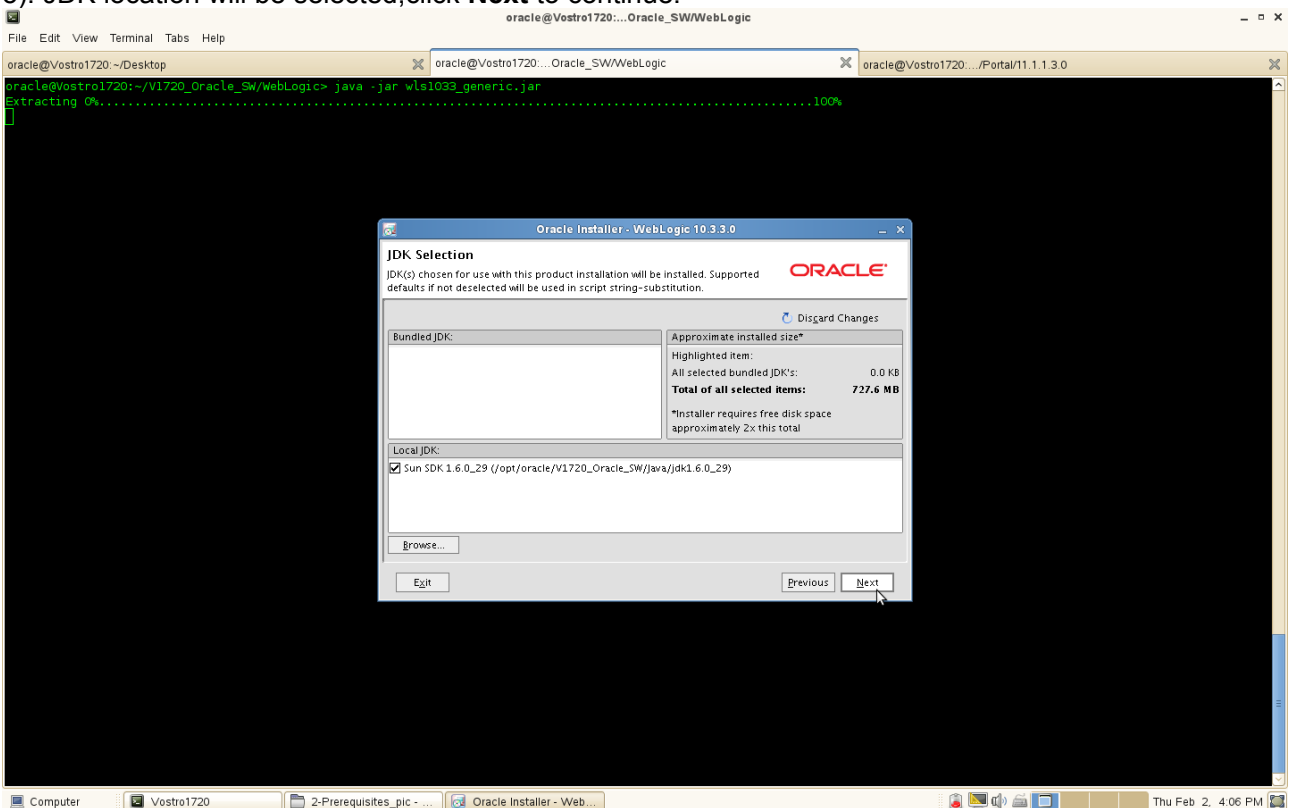
3). Register your email ID for security updates (optional).



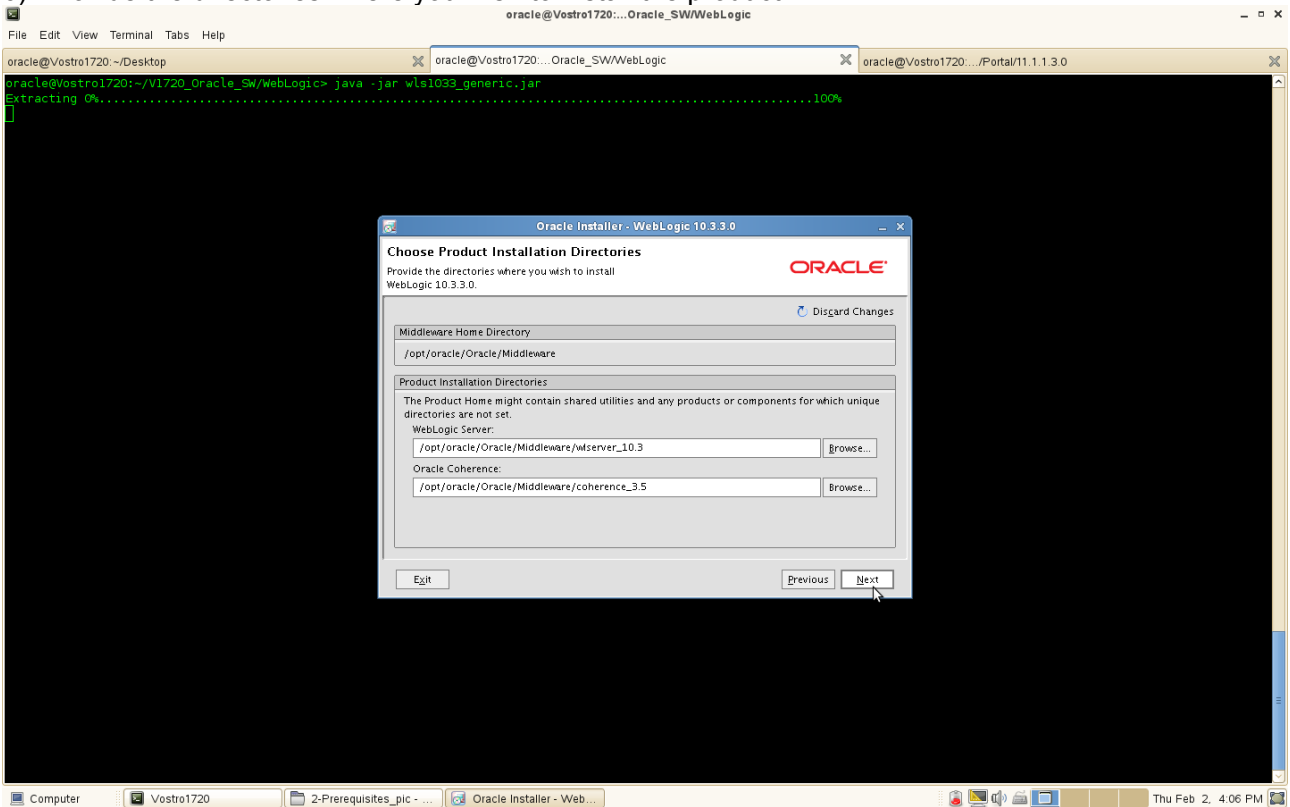
4). Choose the Install Type as **Typical**. Click **Next** to continue.



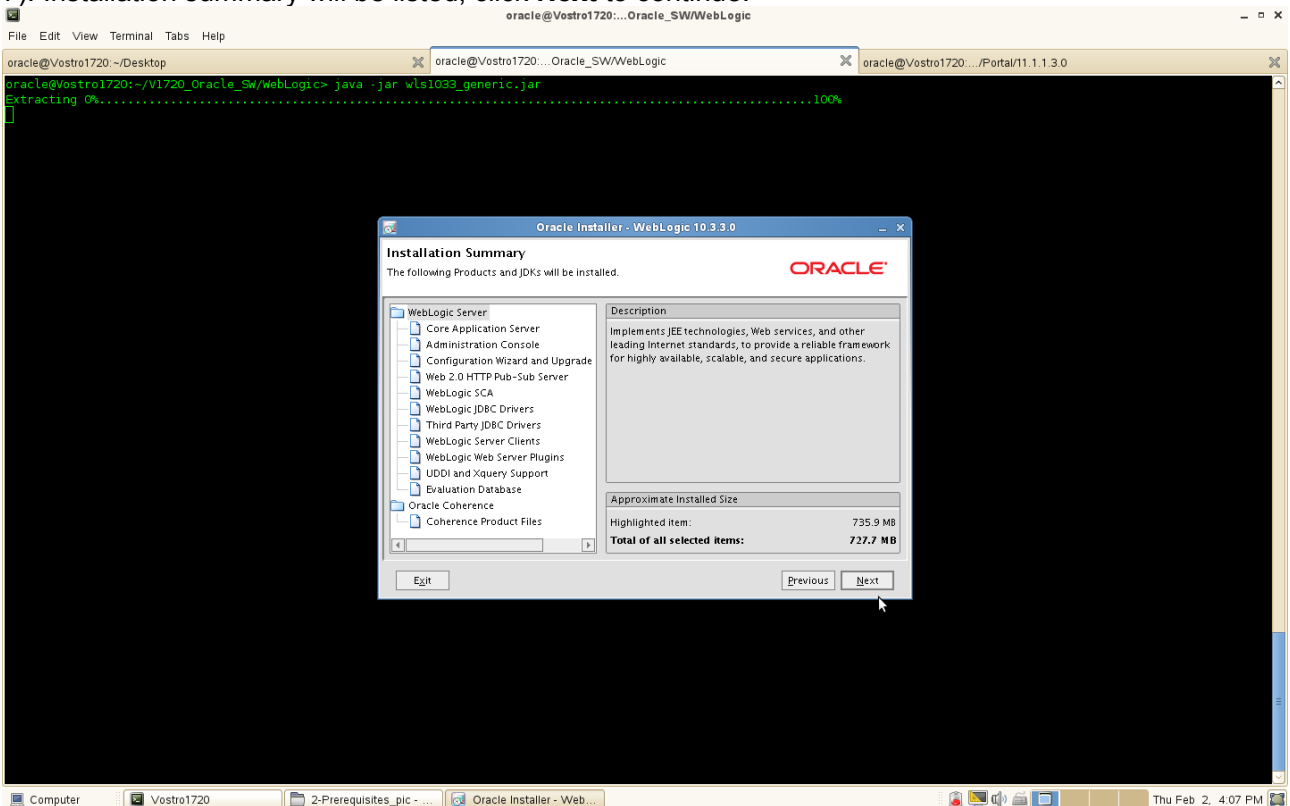
5). JDK location will be selected, click **Next** to continue.



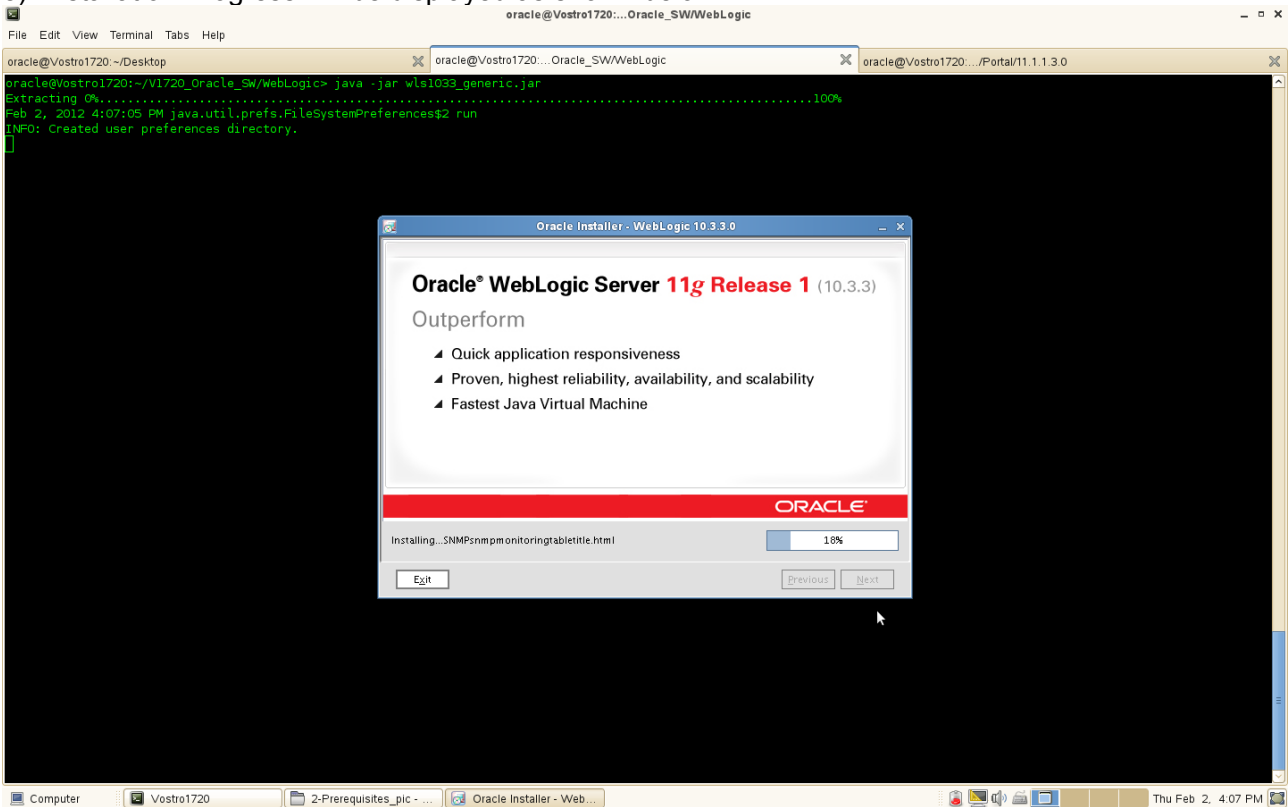
6). Provide the directories where you wish to install the product.



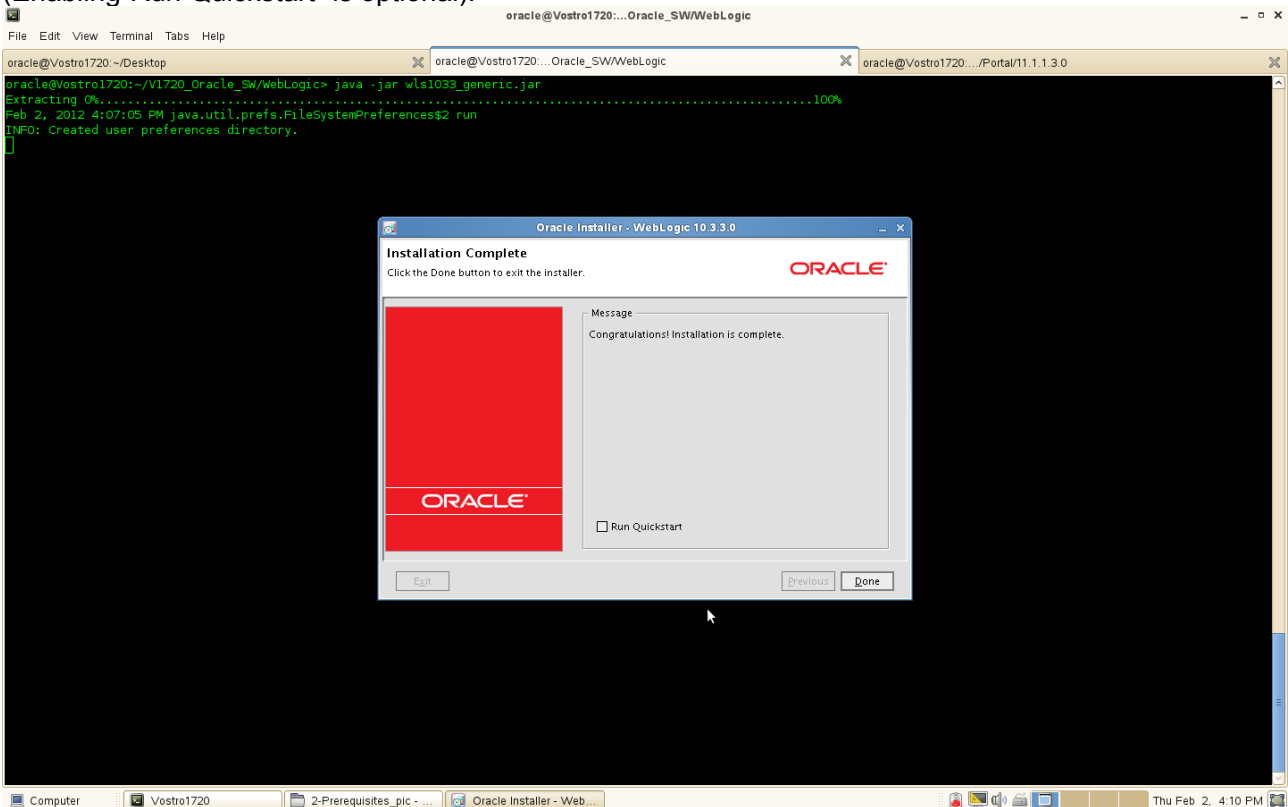
7). Installation summary will be listed, click **Next** to continue.



8). Installation Progress will be displayed as shown below.



9). The "Installation Complete" message will be displayed. Click **Done** and close the installation. (Enabling "Run Quickstart" is optional).



Portals, Forms, Reports and Discoverer Installation

1. Login to the SLES 11 SP2 64-bit OS(Testing Machine which Portal would be installed.) as an admin user install the following **openmotif** packages .

```
openmotif-libs-32bit-2.3.1-3.13.x86_64.rpm
openmotif-libs-2.3.1-3.13.x86_64.rpm
openmotif-2.3.1-3.13.x86_64.rpm
openmotif22-libs-32bit-2.2.4-139.1.x86_64.rpm
openmotif22-libs-2.2.4-139.1.x86_64.rpm
openmotif21-libs-32bit-2.1.30MLI4-0.1.1.x86_64.rpm
openmotif21-libs-2.1.30MLI4-0.1.1.x86_64.rpm
```

These packages can be installed from **SLED 11 SP2 ISO DVD**. Or download from the URL:
(ftp://ftp.novell.com/partners/oracle/sles-11/openmotif_FUSION_SLES11.tgz)

Once above packages were installed **reboot** the Testing Machine.

(**Note:** Using rpm with flag “ - -force” to solve conflicts during openmotif packages installing.)

2. Re-login to the Test Machine(Installed SLES 11 SP2 64-bit OS) as a non-admin user and download the Portal, Forms, Reports, and Discoverer packages:

```
ofm_pfrd_linux_11.1.1.2.0_64_disk1_1of1.zip
ofm_pfrd_linux_11.1.1.2.0_64_disk2_1of1.zip
ofm_pfrd_linux_11.1.1.2.0_64_disk3_1of1.zip
ofm_pfrd_linux_11.1.1.2.0_64_disk4_1of1.zip
ofm_pfrd_linux_11.1.1.3.0_64_disk1_1of1.zip
```

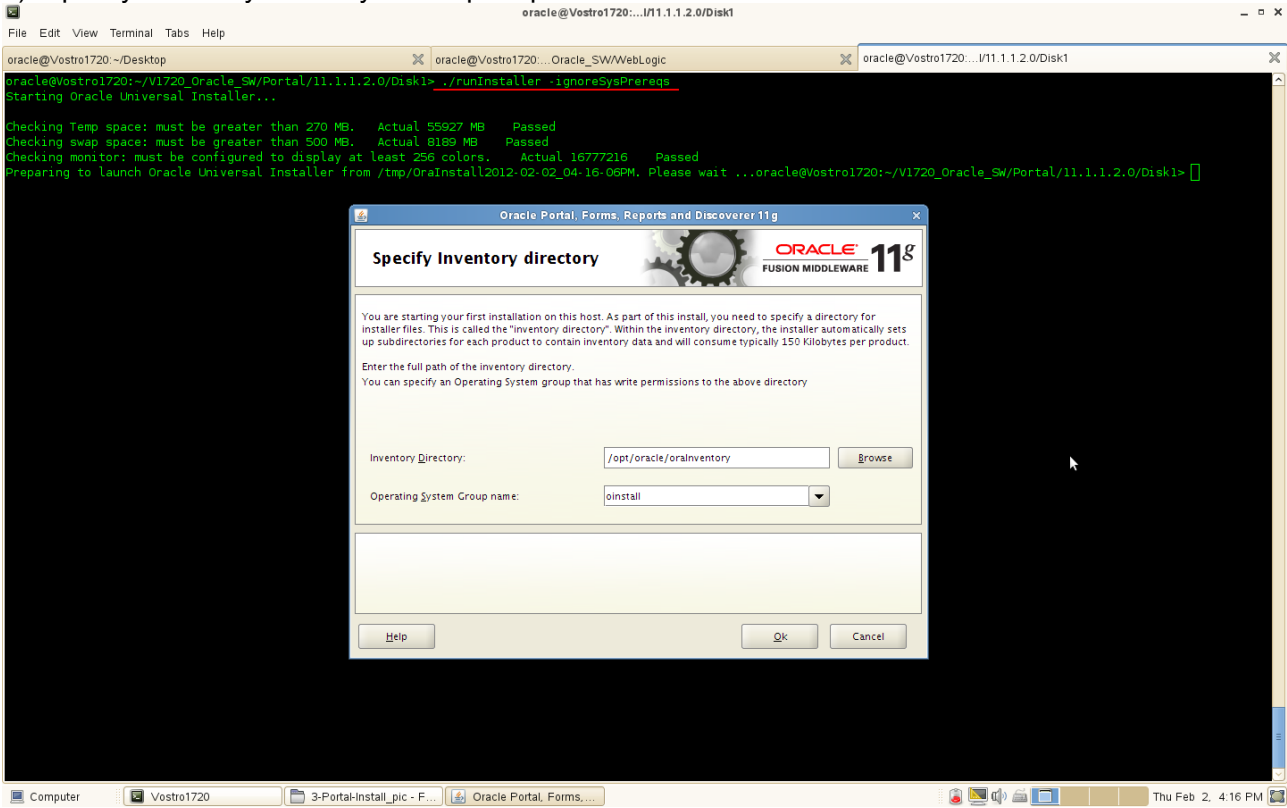
from the URL:(<http://www.oracle.com/technetwork/middleware/downloads/fmw-11-download-092893.html>)

3. Unzip all of the (11.1.1.2.0).zip files and go to Disk1/, run the installer(**./runInstaller**) with the parameters **-ignoreSysPrereqs**.

(**Note:** Enable Oracle DB server , OID server and Portal... Discoverer server known each other by using Hostname before starting the installation.)

Install Flow:

1). Specify Inventory directory will be prompted.



(Note:

The above screen appears for UNIX systems only; if this is your first Oracle installation on this host, you must specify the location of the inventory directory. This inventory directory is used by the installer to keep track of all Oracle products installed on the computer.

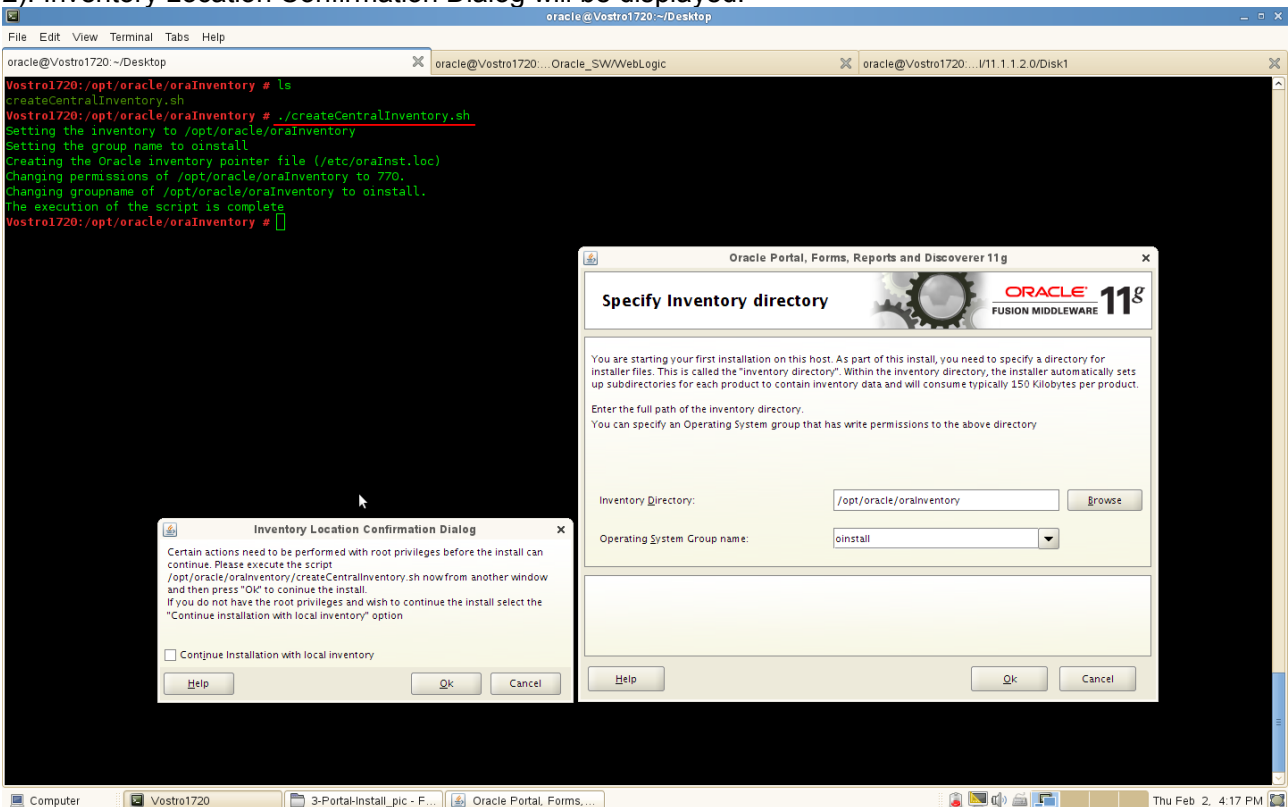
The default inventory location is USER_HOME/orainventory.

In the Operating System Group name field, select the group whose members you want to grant access to the inventory directory; all members of this group will be able to install products on this machine.

Click **OK** to continue.

)

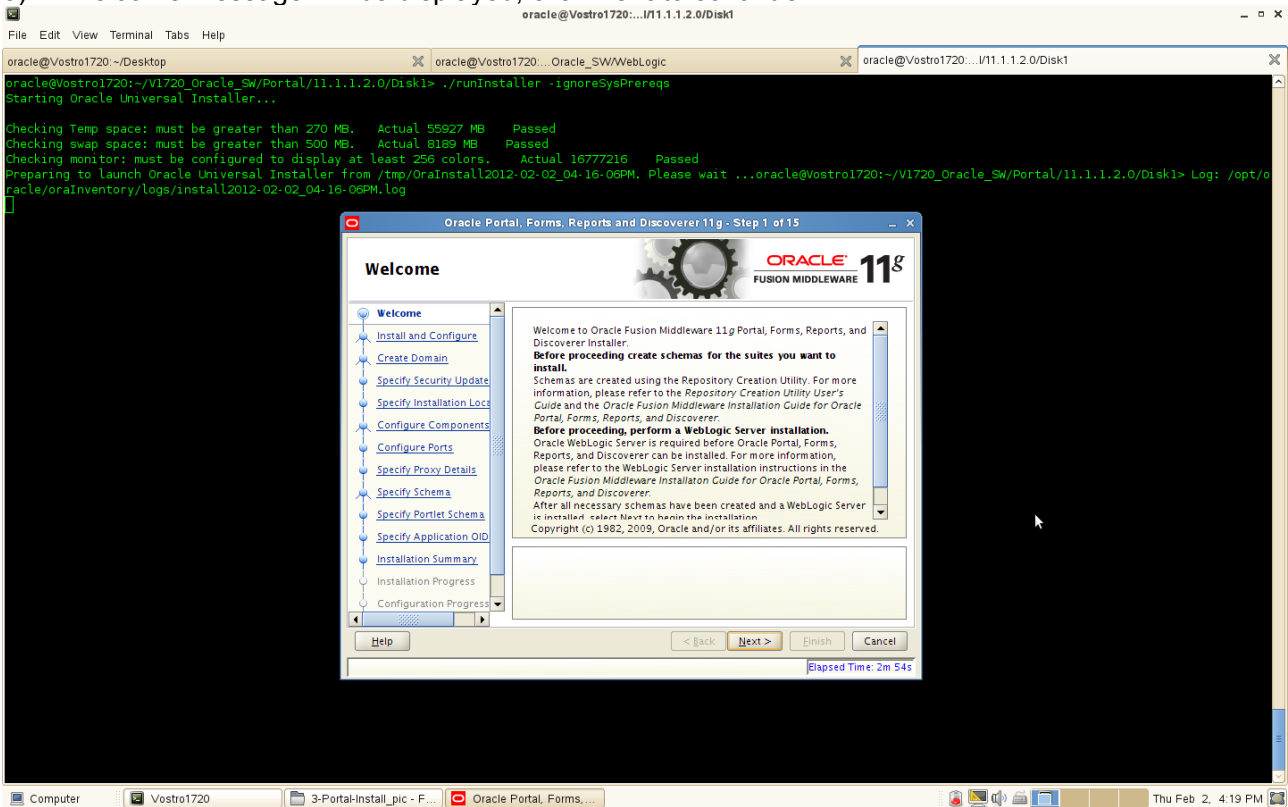
2). Inventory Location Confirmation Dialog will be displayed.



You are asked to run the **inventory_directory/createCentralInventory.sh** script as root. If you do not have root access on this machine but wish to continue with the installation, select Continue installation with local inventory.

Click **OK** to continue.

3). A Welcome message will be displayed, click **Next** to continue.

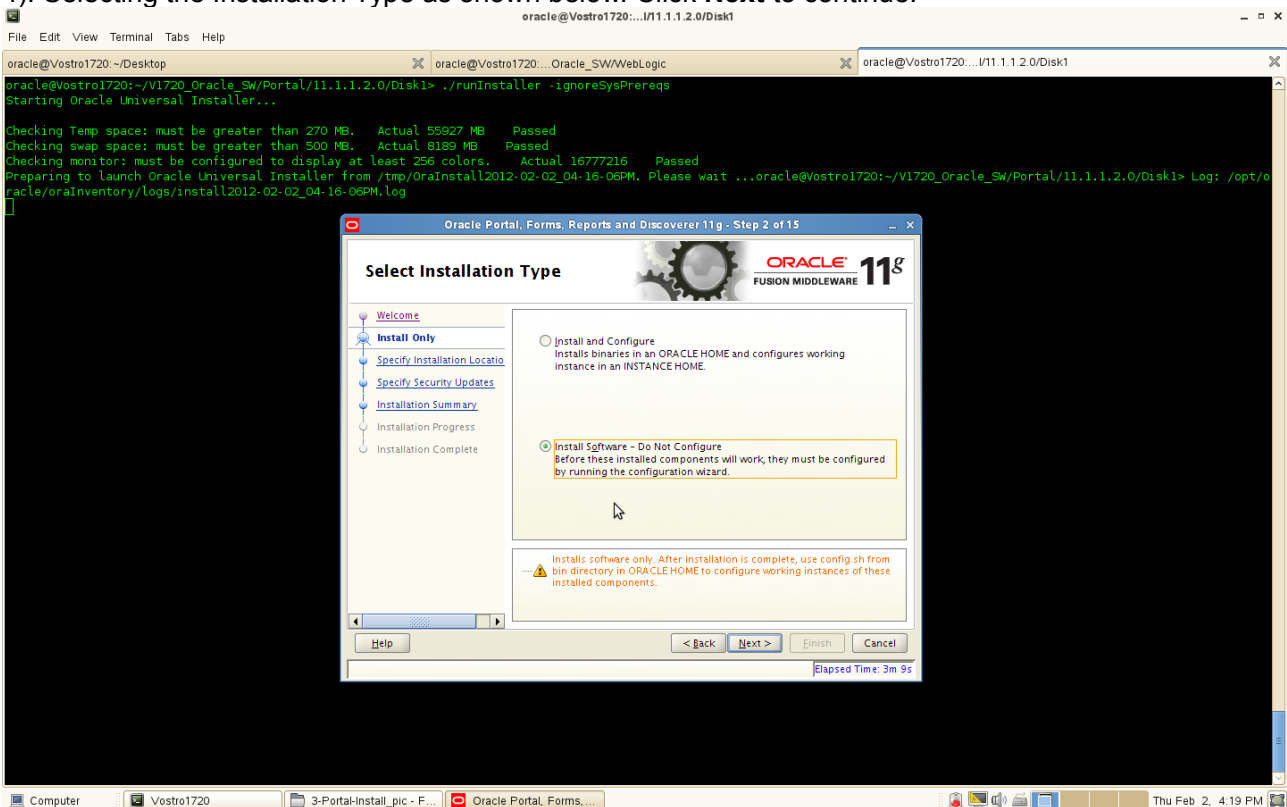


(Note:

Before continuing, make sure that you have created the necessary schemas for the "Portal, Forms, Reports, and Discoverer", OID 10.1.4.0.1 has been installed and upgraded to existing OID installation to 10.1.4.3, and also you have installed and configured WebLogic Server. Besides, enable Oracle DB server, OID server and Portal... Discoverer server know each other by Hostname.

)

4). Selecting the Installation Type as shown below. Click **Next** to continue.



Select the type of installation you want to perform.

- **Install and Configure**

Select this option to have the installer create an Oracle Home directory where the software will be installed, and an Oracle Instance directory where a working instance of the software will be created.

After the installation is complete, you can modify the configured instance using Enterprise Manager or WebLogic Server Administration Console.

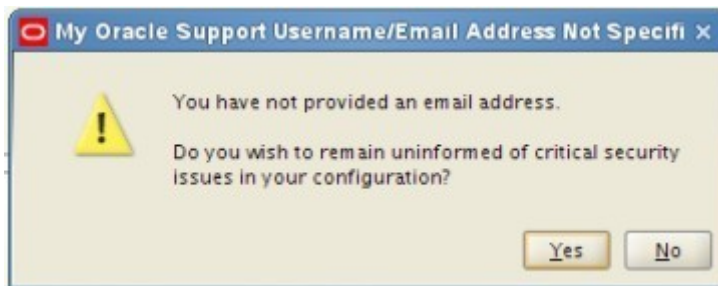
- **Install Software - Do Not Configure**

Select this option to have the installer create an Oracle Home directory where the software will be installed. After the installation, you must run the Configuration Tool separately to configure a working instance.

(Note:

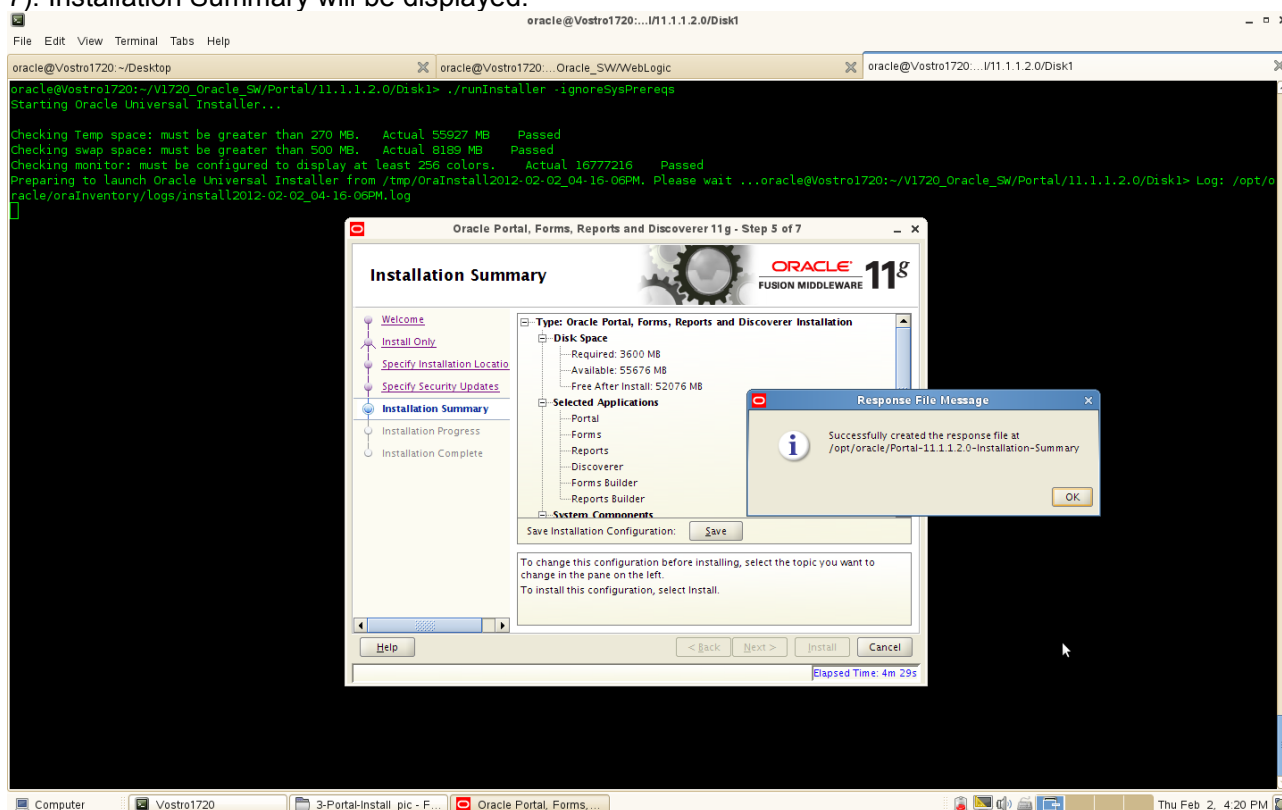
Enter your E-mail address if you want to receive the latest product information and security updates. If you have a My Oracle account and wish to receive updates via this mechanism, select I wish to receive security updates via My Oracle Support, then enter your account password.

If you do not wish to register for Oracle Configuration Manager, leave all the fields on this screen blank. You will be prompted to confirm your selection with the following screen:



Click **Yes** to confirm that you do not want to register for security updates.

7). Installation Summary will be displayed.

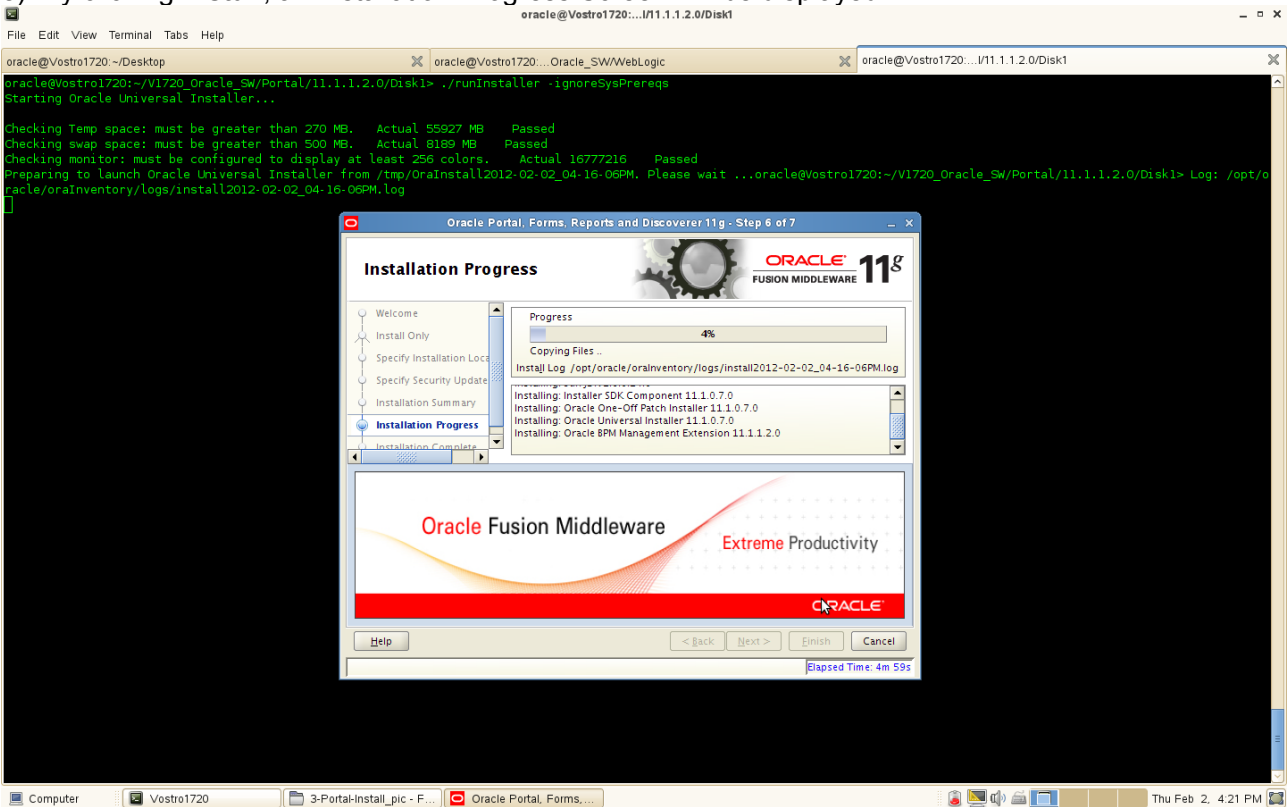


Review the information on this screen, and click **Install** to begin the installation. The operations summarized on this page will be performed when you click Install.

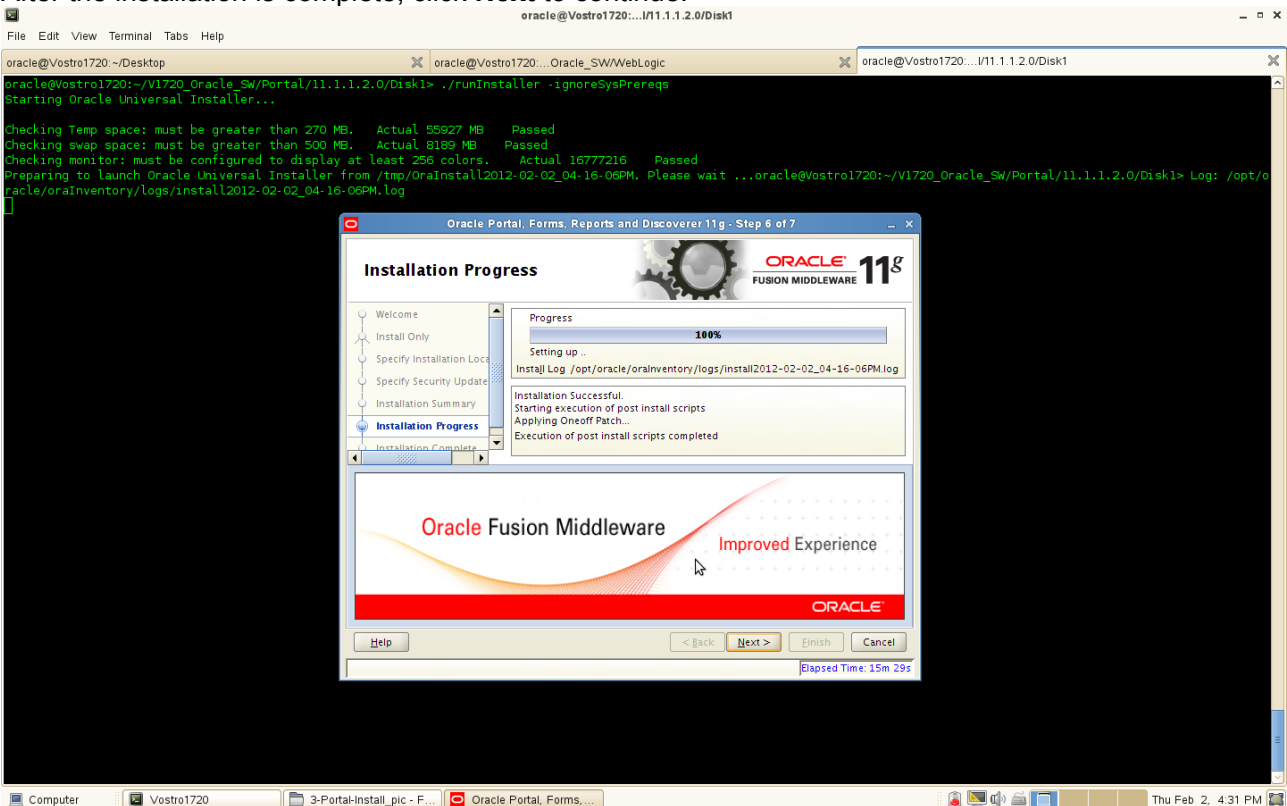
If you want to make any changes to the configuration before starting the installation, use the navigation pane and select the topic you want to edit.

If you want to save this configuration to a text file, click **Save**. This file can be used later if you choose to perform the same installation from the command line.

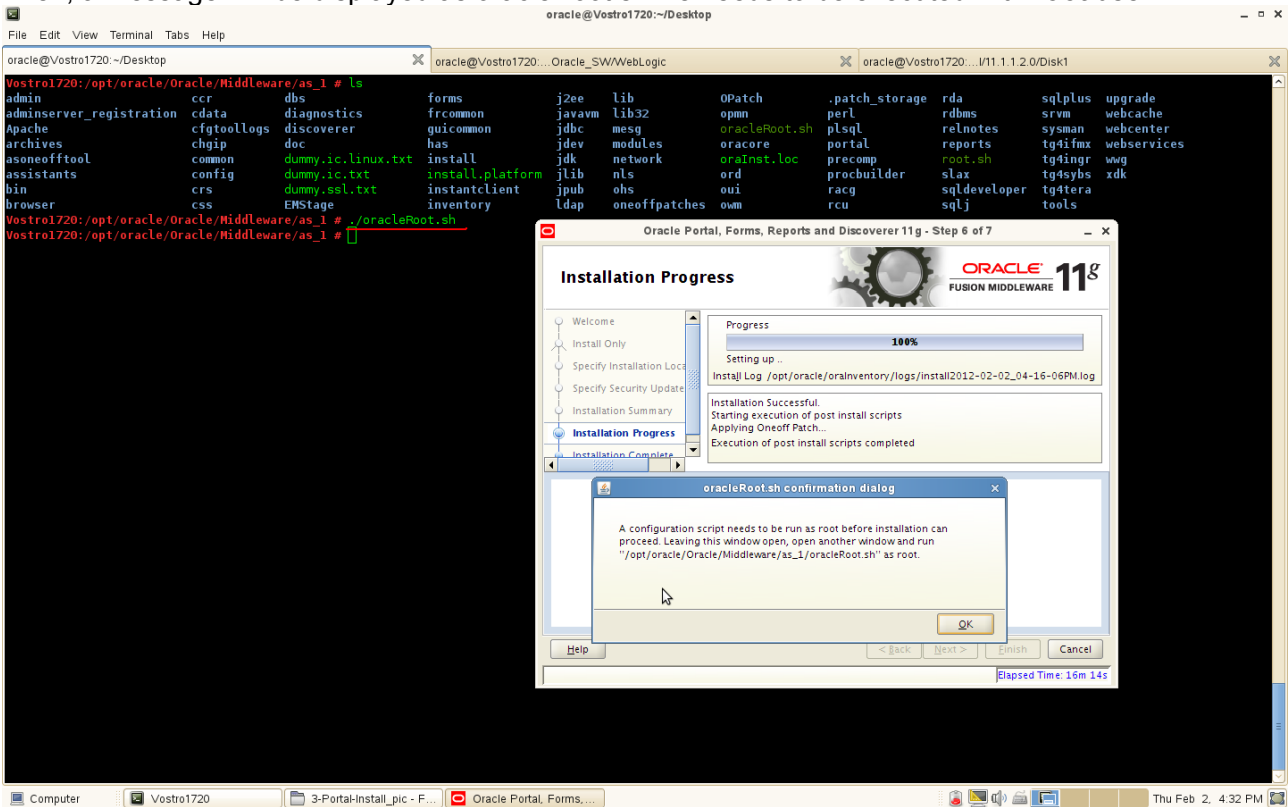
8). By clicking **Install**, an Installation Progress Screen will be displayed.



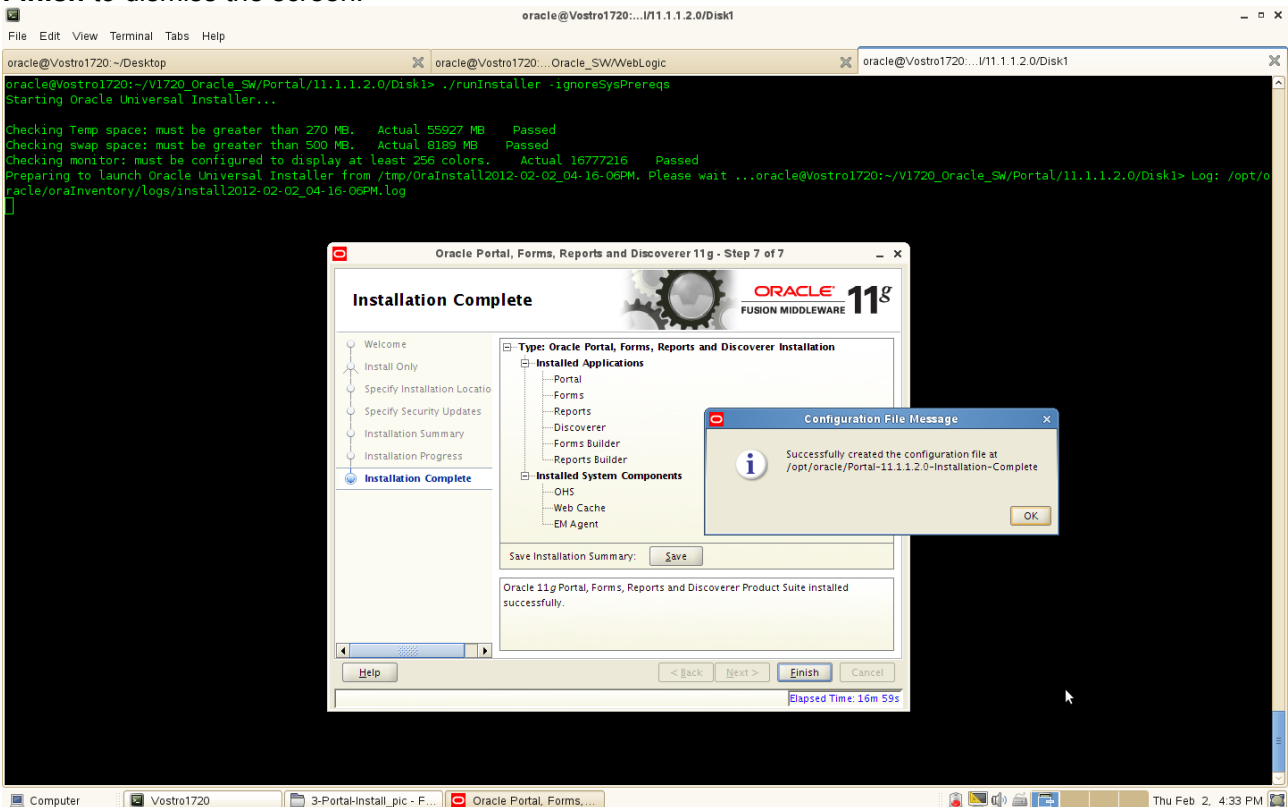
After the installation is complete, click **Next** to continue.



Then, a message will be displayed as oracleRoot.sh file needs to be executed with root user.



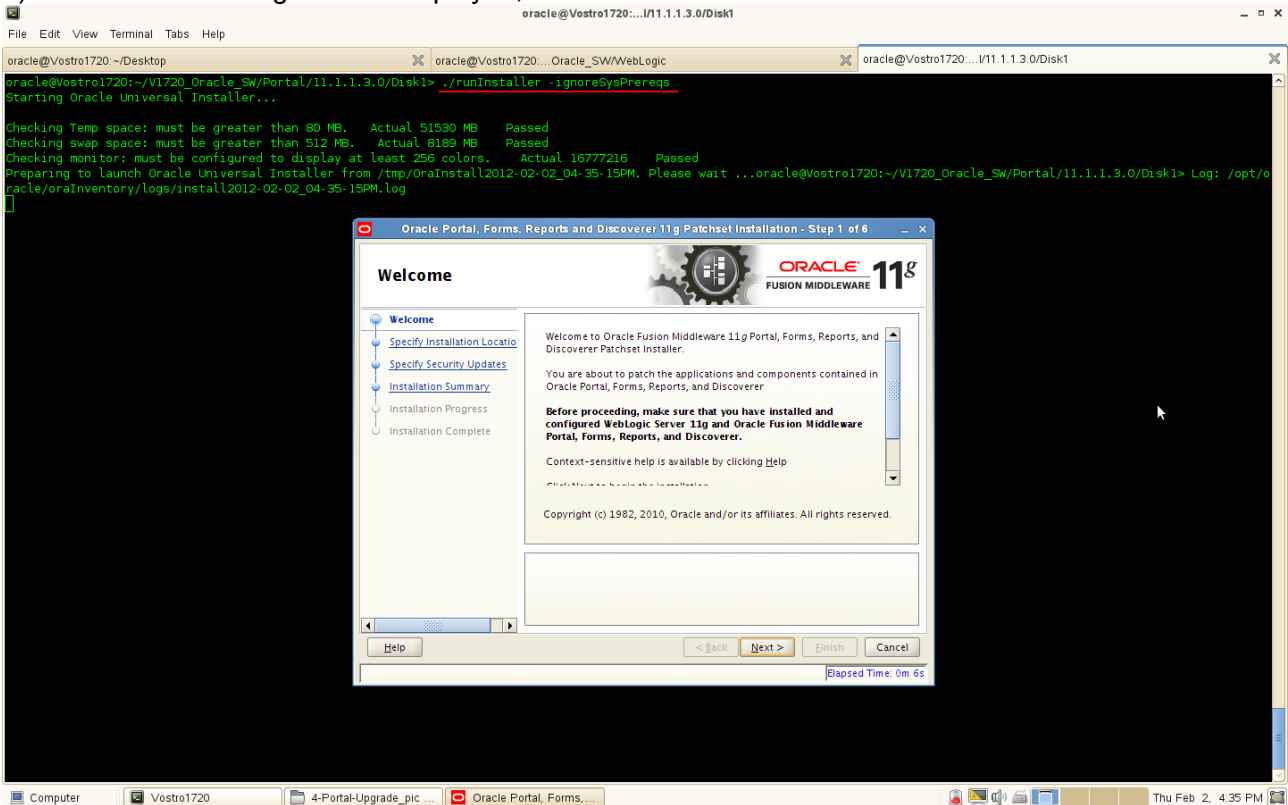
9). Installation Complete. You can click **Save** to save your configuration information to a file. Then, Click **Finish** to dismiss the screen.



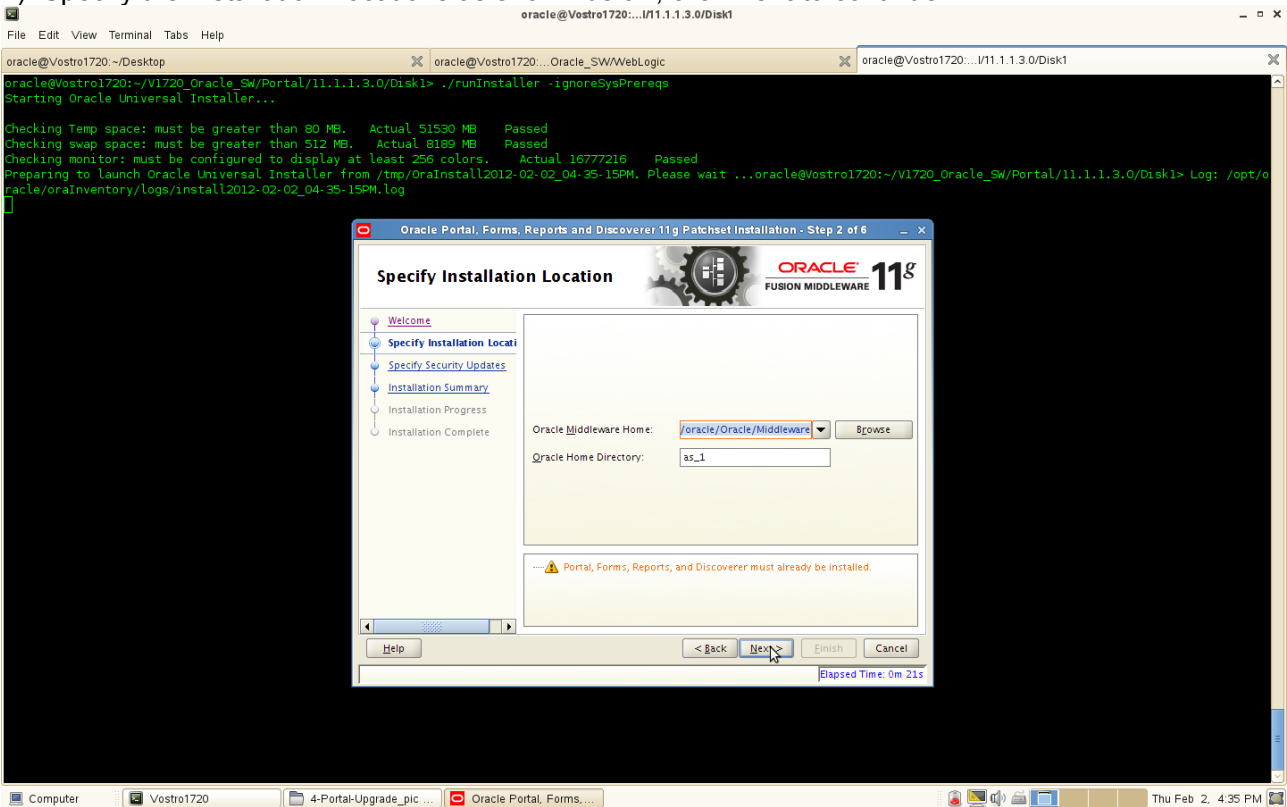
4. The Oracle Portal,Forms,Reports and Discoverer(11.1.1.2.0) installation is completed. Then upgrade to (11.1.1.3.0). Extract the Oracle Portal,Forms,Reports and Discoverer(11.1.1.3.0).zip file to a separate directory and go to Disk1/, run the installer(./runInstaller) with the parameters **-ignoreSysPrereqs**.

Install Flow:

1). A Welcome message will be displayed, click **Next** to continue.

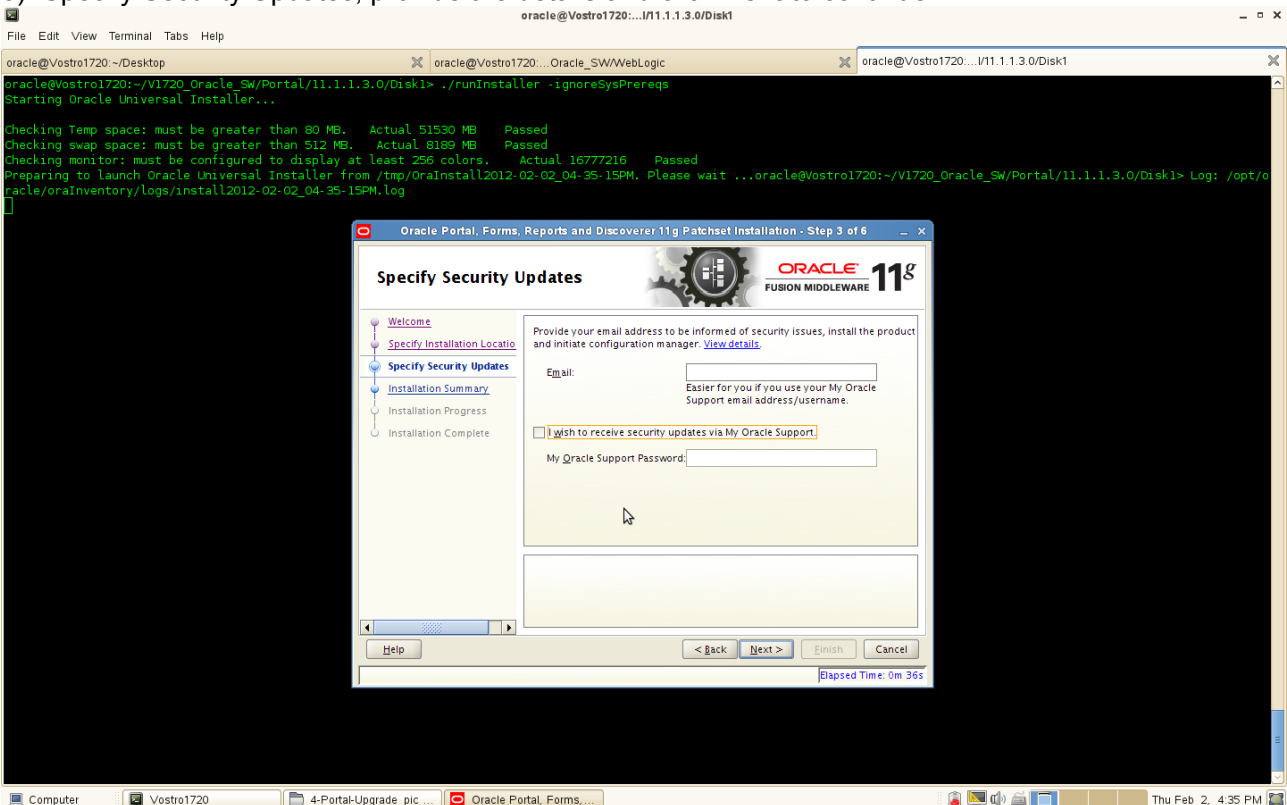


2). Specify the Installation Locations as shown below, click **Next** to continue.



(**Note:** Oracle Portal, Forms, Reports and Discoverer (11.1.1.2.0) must already be installed. Here specify Oracle Middleware Home and Oracle Home Directory same as 11.1.1.2.0.)

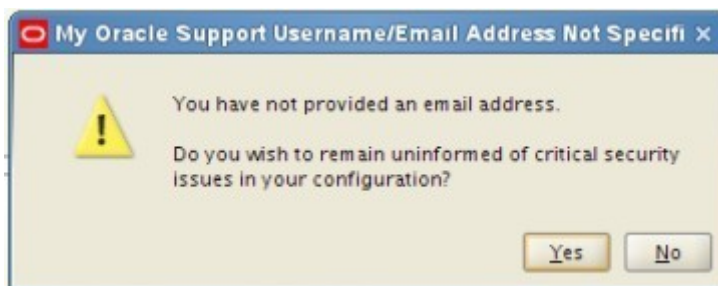
3). Specify Security Updates, provide the details and click **Next** to continue.



(Note:

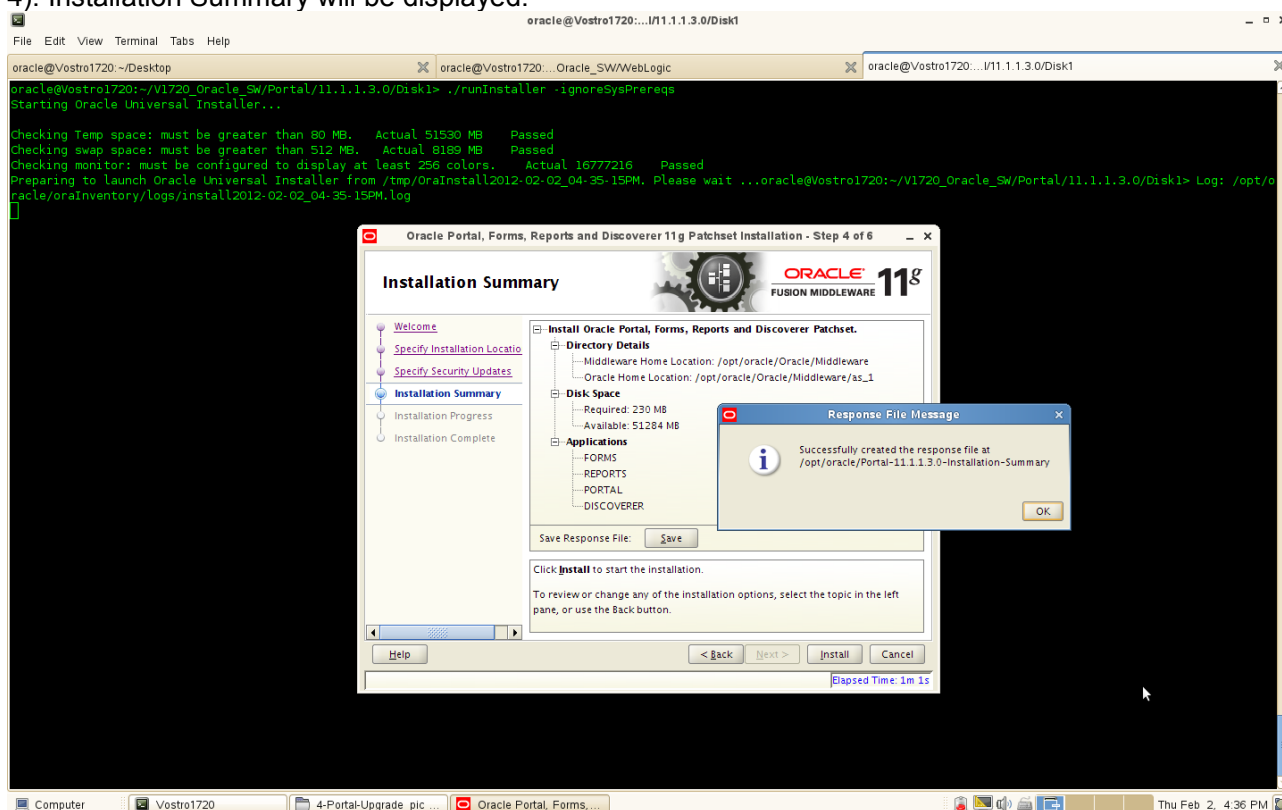
Enter your E-mail address if you want to receive the latest product information and security updates. If you have a My Oracle account and wish to receive updates via this mechanism, select I wish to receive security updates via My Oracle Support, then enter your account password.

If you do not wish to register for Oracle Configuration Manager, leave all the fields on this screen blank. You will be prompted to confirm your selection with the following screen:



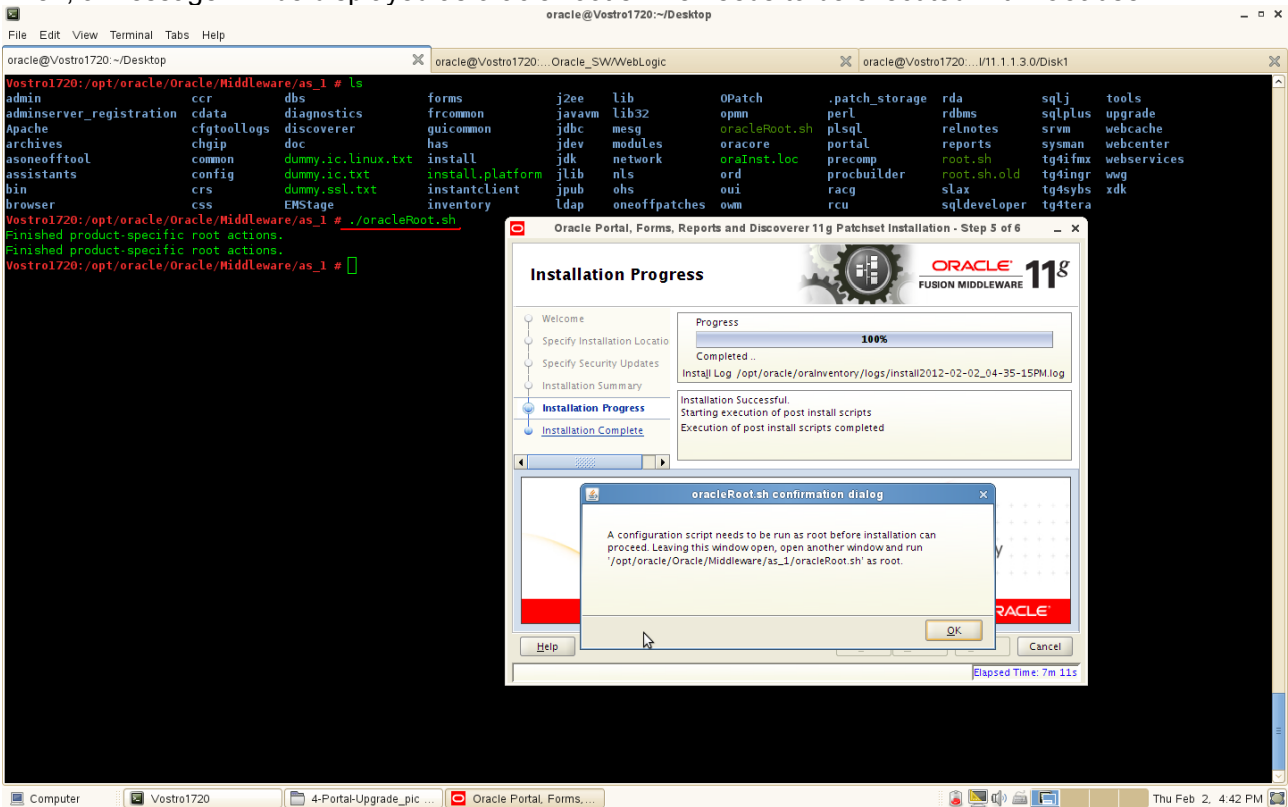
Click **Yes** to confirm that you do not want to register for security updates.

4). Installation Summary will be displayed.

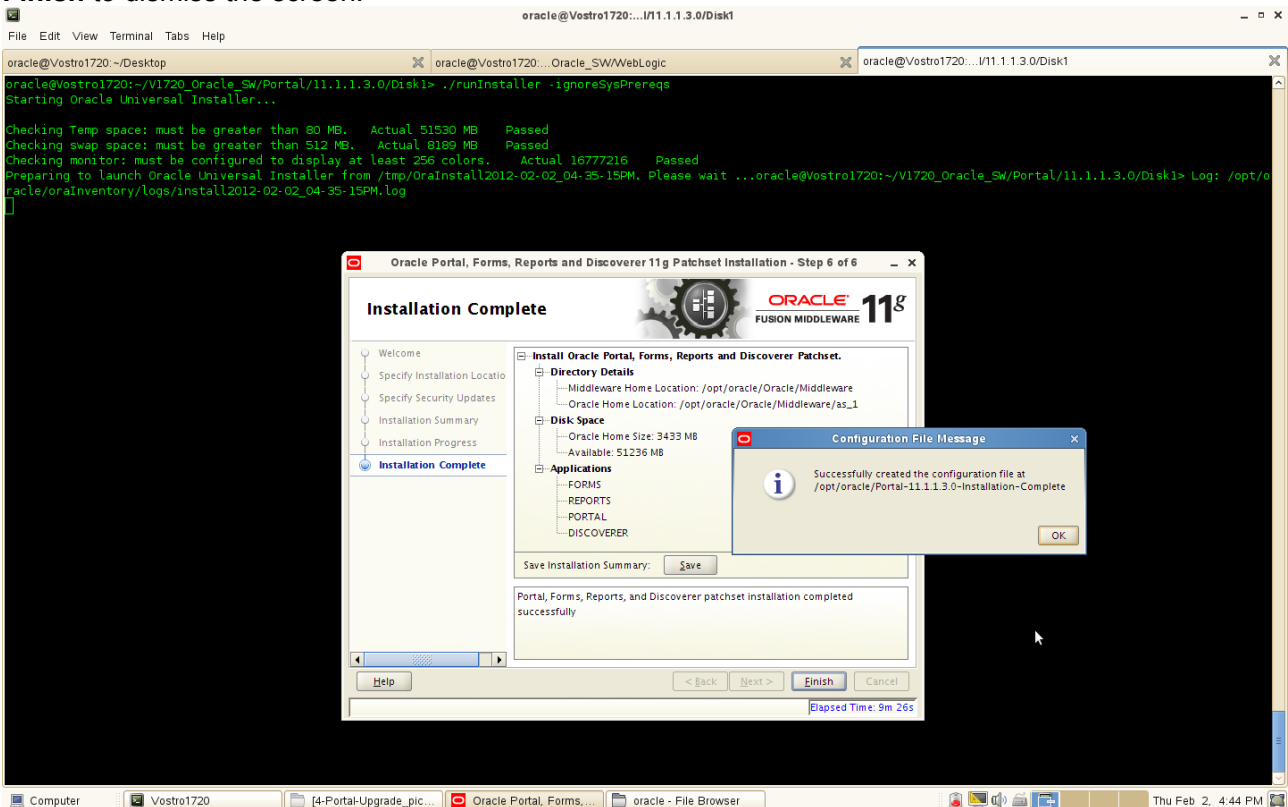


Review the information on this screen, and click **Install** to begin the installation. The operations summarized on this page will be performed when you click Install. If you want to make any changes to the configuration before starting the installation, use the navigation pane and select the topic you want to edit. If you want to save this configuration to a text file, click **Save**. This file can be used later if you choose to perform the same installation from the command line.

Then, a message will be displayed as oracleRoot.sh file needs to be executed with root user.

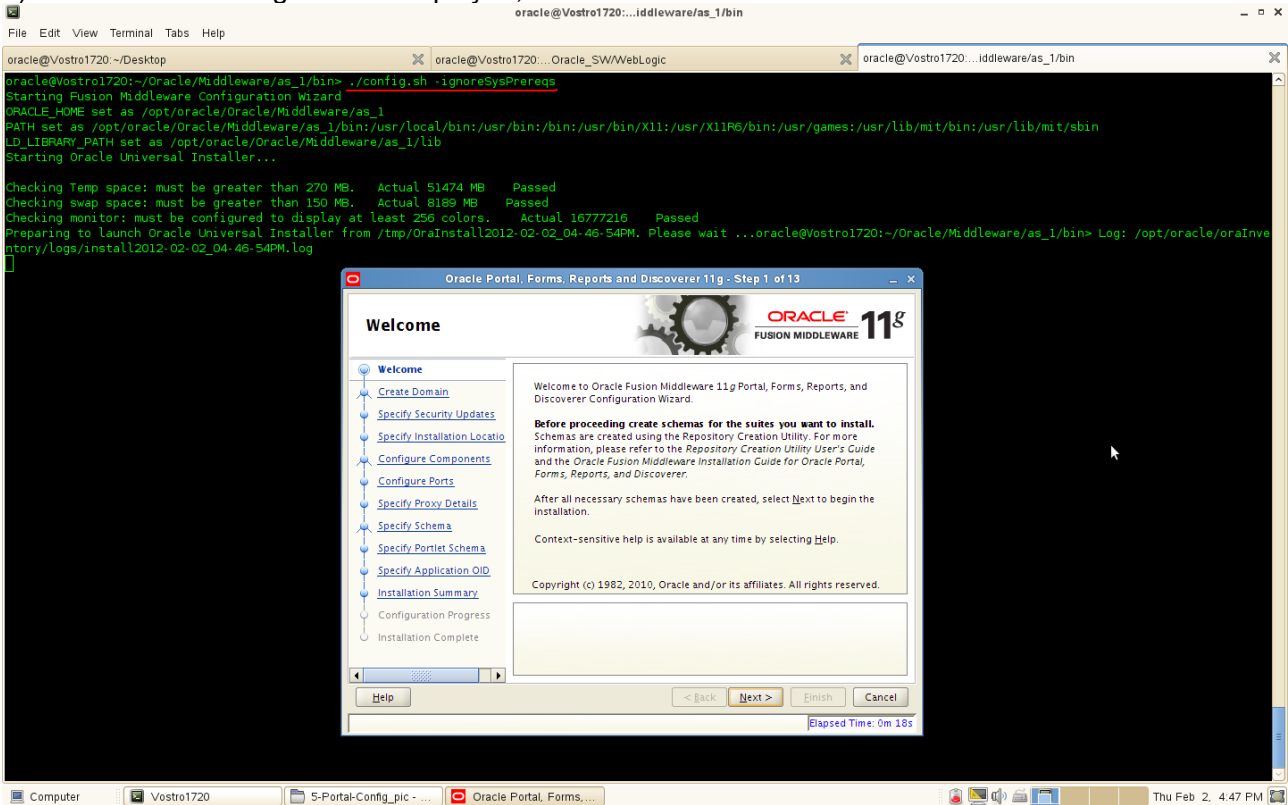


6). Installation Complete. You can click **Save** to save your configuration information to a file. Then, Click **Finish** to dismiss the screen.

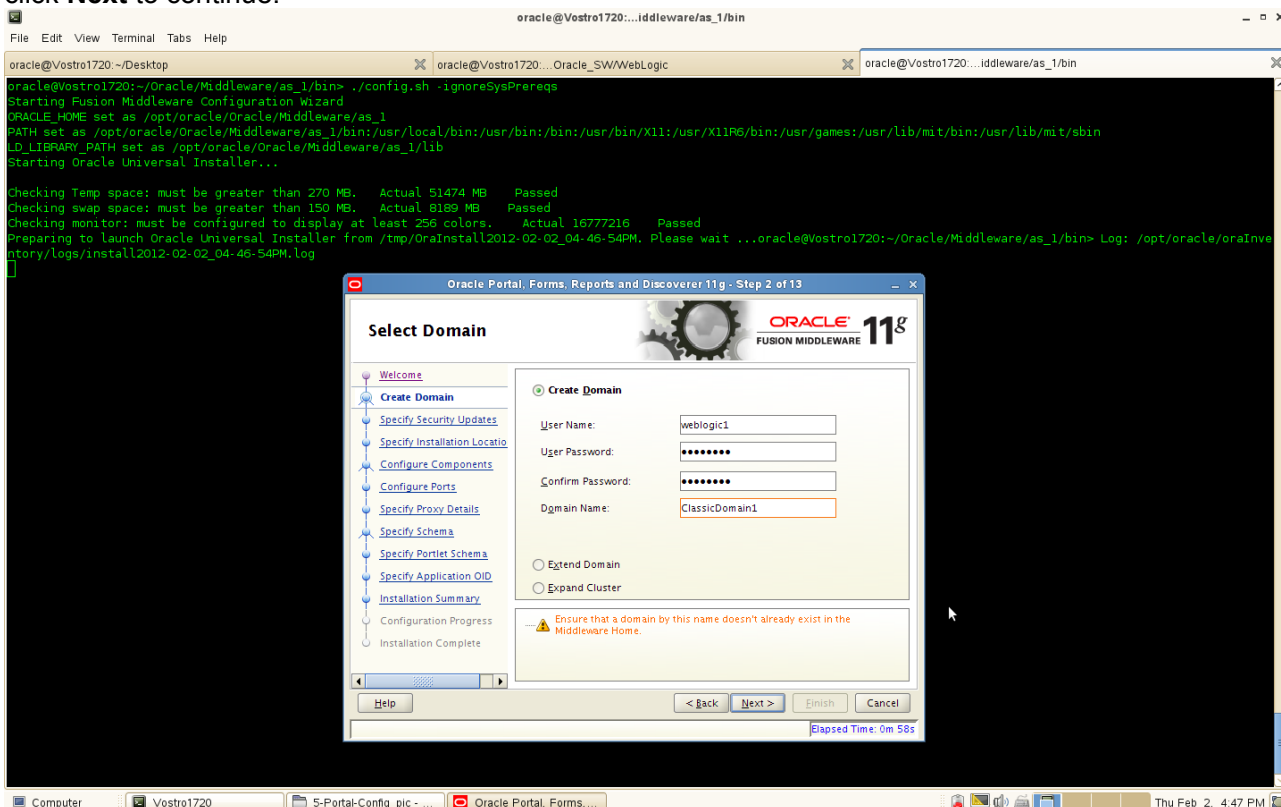


5. Oracle Portal, Forms, Reports, and Discoverer(11.1.1.3.0) installation is complete. Use **config.sh** with the parameters **-ignoreSysPrereqs** from bin directory in ORACLE_HOME to configure working instances of these installed components.

1). A Welcome message will be displayed, click **Next** to continue.



2). Selecting the domain type as shown below, input the user name, password, Domain Name, and click **Next** to continue.



(Notes:

Use the above screen to create a **new WebLogic domain**, extend an existing domain, or expand a cluster.

Specify the following to **create a new WebLogic domain**:

- User Name

Specify the user name. The default user name is weblogic.

- User Password

Specify the user password. Valid passwords are 5 to 30 characters long, must begin with an alphabetic character, use only alphanumeric, underscore (_), dollar (\$) or pound (#) characters and include at least one number.

- Confirm Password

Enter the same user password again.

- Domain Name

Specify the name of the domain you want to create. Domain names may only contain alphanumeric characters, or the underscore (_) or hyphen (-) characters.

If an **existing domain** is detected, you will have the option of extending the existing domain to add the products and services you are installing. To extend an existing domain, select Extend Domain and specify the following:

- Host Name

Specify the name of the machine where the domain is located.

- Port

Specify the port number on the host where the domain can be accessed.

- User Name

Specify the user name. The default user name is weblogic.

- User Password

Specify the user password. Valid passwords are 5 to 30 characters long, must begin with an alphabetic character, use only alphanumeric, underscore (_), dollar (\$) or pound (#) characters and include at least one number.

You can also choose **Expand Cluster** to add managed servers for high availability and replication. Provide the following credentials:

- Host Name

Specify the name of the machine where the cluster is located.

- Port

Specify the port number on the host where the cluster can be accessed.

- User Name

Specify the user name. The default user name is weblogic.

- User Password

Specify the user password. Valid passwords are 5 to 30 characters long, must begin with an alphabetic character, use only alphanumeric, underscore (_), dollar (\$) or pound (#) characters and include at least one number.

)

3). Specify Security Updates, provide the details and click **Next** to continue.



(Note:

Enter your E-mail address if you want to receive the latest product information and security updates. If you have a My Oracle account and wish to receive updates via this mechanism, select I wish to receive security updates via My Oracle Support, then enter your account password.

If you do not wish to register for Oracle Configuration Manager, leave all the fields on this screen blank. You will be prompted to confirm your selection with the following screen:



Click **Yes** to confirm that you do not want to register for security updates.
)

4). Specify the Installation Locations as shown below, click **Next** to continue.**(Notes:**

The contents of this screen differ depending on how you access this screen. There are three possibilities:

First possibility: Install and Configure on the Select Installation Type Screen

If you selected the Install and Configure option on the [Select Installation Type Screen](#), specify the following installation locations:

- **Oracle Middleware Home Location**

The absolute path to the directory where WebLogic Server was installed.

- **Oracle Home Directory**

The directory name for your Oracle Home:

- You can specify a directory that already exists; this must be an empty directory inside the Oracle Middleware Home (for example, you have created an empty directory inside the Middleware Home in advance of this installation and should specify this directory here).
- You can specify a pre-existing Oracle Home directory (for example, you are reinstalling the software into an existing Oracle Home that was created from a previous installation that was incomplete).
- You can specify the name of a new directory that will be created for you inside the Middleware Home.

Your Oracle Home directory where your products will be installed. All software binaries will reside in this directory, and no runtime process can write to this directory.

Note: This installation directory will be referred to as ORACLE_HOME throughout the remainder

of this document.

- **WebLogic Server Location**

The directory name for your WebLogic Server Home. This directory will automatically be created inside the Middleware Home. The default name for this directory is `wlserver_10.3`.

- **Oracle Instance Location**

The absolute path to the directory where your Oracle Instance will reside. This is where application configuration files reside and where the application process runs from. Runtime components write only to this location.

- **Oracle Instance Name**

- Specify the unique name of your Oracle Instance. The Oracle Instance name may only contain alphanumeric and underscore (`_`) characters, it must begin with an alphabetic (a-z or A-Z) character, and must be 4 to 30 characters in length.

Second possibility: Install Only - Do Not Configure Option

If you selected the Install Software - Do Not Configure option on the [Select Installation Type Screen](#), you specify the following installation locations:

- **Oracle Middleware Home**

The absolute path to the directory where WebLogic Server was installed.

- **Oracle Home Directory**

The directory name for your Oracle home:

- You can specify a pre-existing Oracle Home directory (for example, you are reinstalling the software into an existing Oracle Home that was created from a previous installation that was incomplete).
- You can specify the name of a new directory that will be created for you inside the Middleware Home.

Your Oracle Home directory where your products will be installed. All software binaries will reside in this directory, and no runtime process can write to this directory.

Third possibility: Configuration Tool Option

If you are running the Configuration Tool from the `ORACLE_HOME/bin` (on UNIX operating systems) or `ORACLE_HOME\bin` (on Windows operating systems) directory, specify the following installation locations:

- **WebLogic Server Location**

The absolute path to the directory where WebLogic Server was installed.

- **Oracle Instance Location**

The absolute path to the directory where your Oracle Instance will reside. This is where application configuration files reside and where the application process runs from. Runtime components write only to this location.

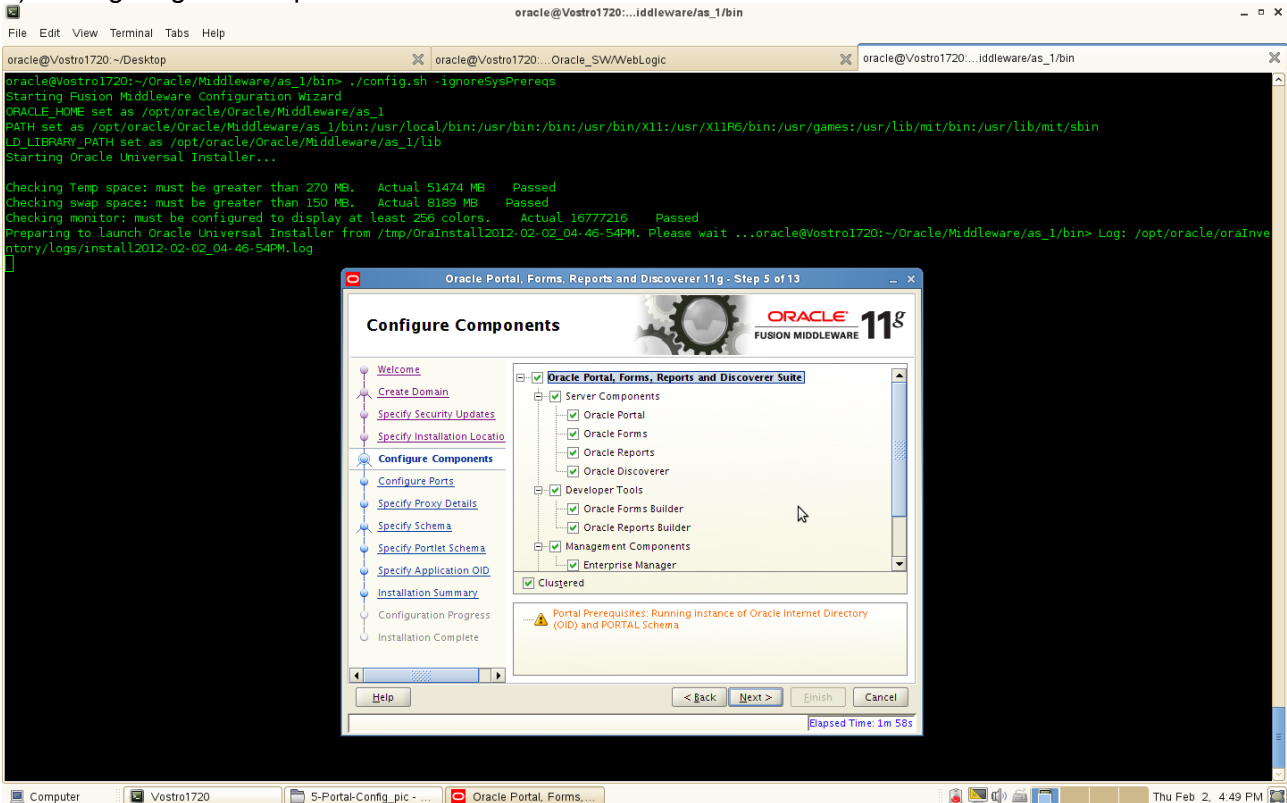
- **Oracle Instance Name**

Specify the unique name of your Oracle Instance. The Oracle Instance name may only contain alphanumeric and underscore (`_`) characters, it must begin with an alphabetic (a-z or A-

Z) character, and must be 4 to 30 characters in length.

)

5). Configuring the components as shown below. Click **Next** to continue.



This screen shows the products and components that are available for configuration. What appears on this screen depends on what you selected on the **Select Domain Screen**:

- If you selected Create Domain on the **Select Domain Screen**, all components in the Oracle Portal, Forms, Reports, and Discoverer suite of products will appear on this screen.
- If you selected Extend Domain on the **Select Domain Screen**, only those components that do not already exist in the domain will be available on this screen, in order for you to add functionality and services to your existing domain.
- If you selected Expand Cluster on the **Select Domain Screen**, only those components that already exist in the domain will be available on this screen, in order for you to perform your replication for high availability.

Select the component(s) you want to configure. Notice in the bottom pane that there is prerequisite information depending on which component(s) you select. Be sure you read this information carefully before you continue.

Select Clustered if you want to be able to extend your domain or expand the cluster at some later point in time for the selected components. If this is a stand-alone installation on a single machine, then you can de-select this option.

6). Configuration of Port as shown below. Click **Next** to continue.

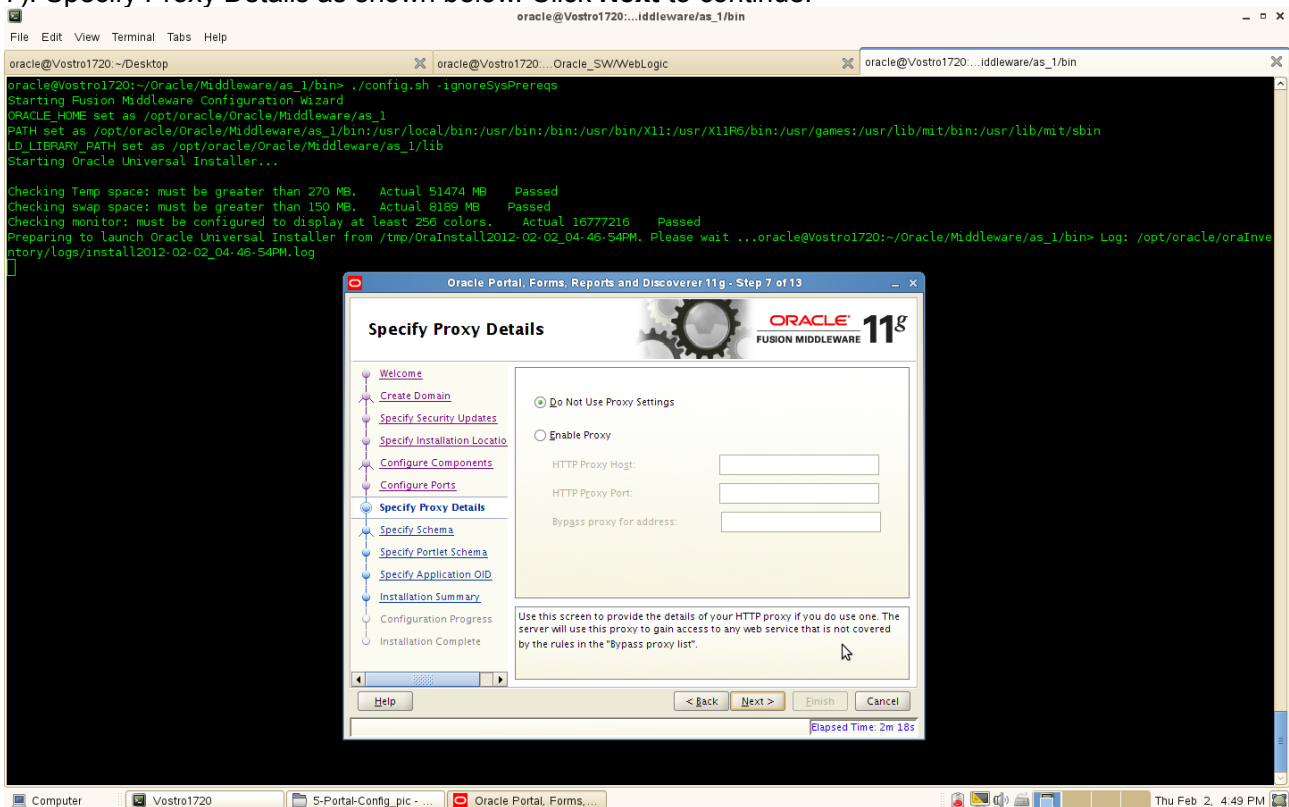


Select **Auto Port Configuration** if you want the installer to automatically assign the default ports to the components.

Select **Specify Ports Using Configuration File** if you have already created a port configuration file that specifies the port numbers that you want to use for each component. Enter the full part and filename of this file in the **Filename** field, or click **Browse** to locate an existing file on your system.

A default file called **staticports.ini** is provided in the Disk1/stage/Response directory on the CD-ROM. You can use this file as a template to create your own custom ports file.

7). Specify Proxy Details as shown below. Click **Next** to continue.



(Notes:

This screen is only visible if Oracle Reports was selected on the Configure Components Screen.

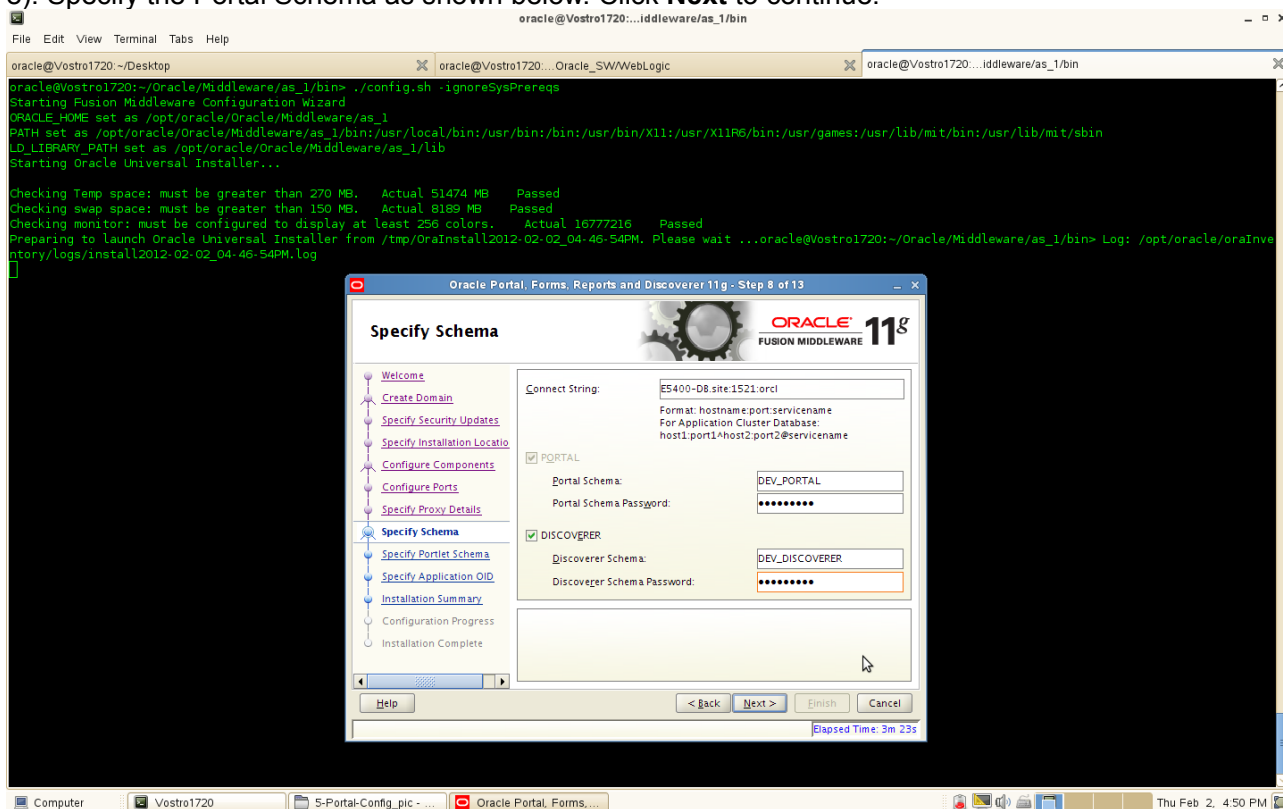
If your computer is located behind a firewall you may need to route outgoing HTTP connections through a proxy server. If you have a direct connection to the Internet or if you do not wish to configure a proxy server at this time select **“Do Not Use Proxy Settings”** and click **Next**.

If you are configuring a proxy server, you must provide the following information:

- HTTP Proxy Host
Enter the host name of your proxy server.
- HTTP Proxy Port
Enter the port number of your proxy server.
- Bypass proxy for address
Enter addresses for which the proxy server should be bypassed. Use commas (,) to separate multiple entries. Domains may be listed using asterisk (*). For example:
.us.oracle.com,.in.oracle.com

)

8). Specify the Portal Schema as shown below. Click **Next** to continue.



Discoverer, whichever was selected on the Configure Components Screen.

In the Connect String field, specify the connection credentials to your database in the following format:
hostname:port:servicename

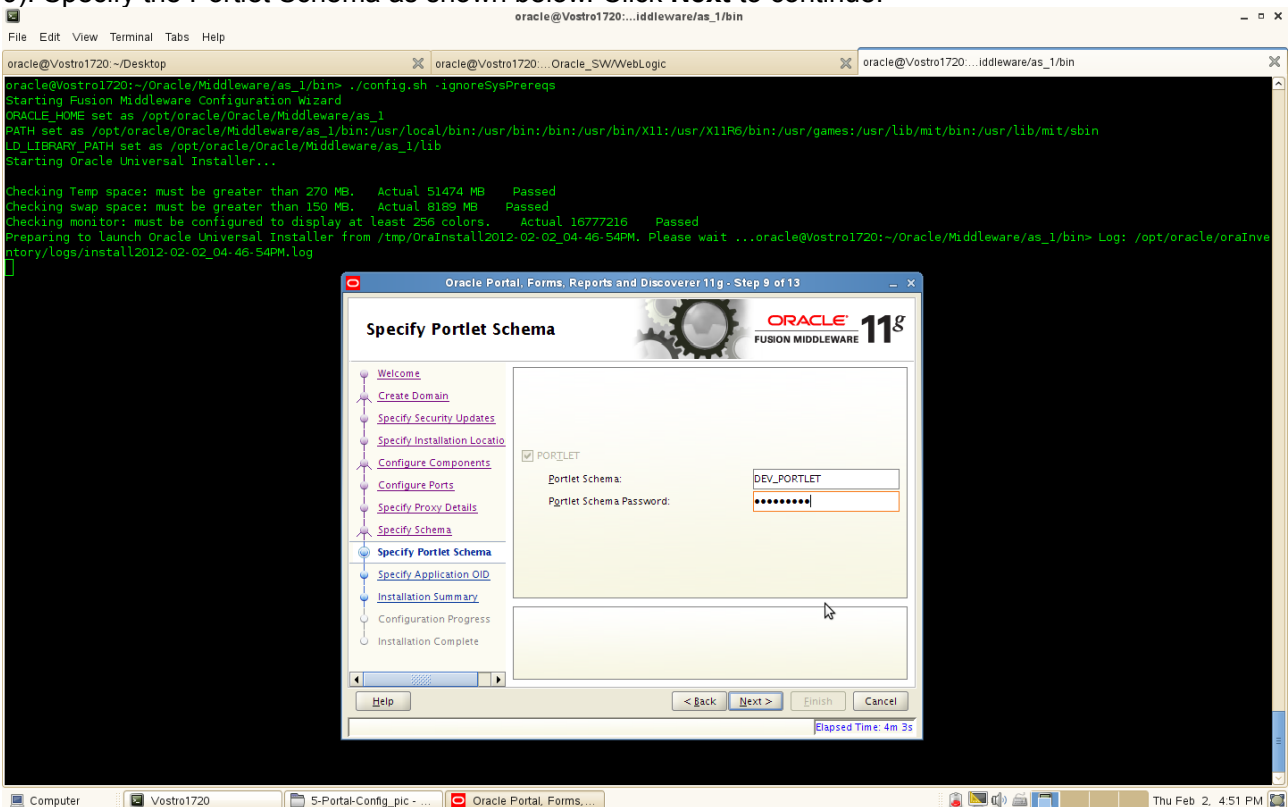
If you are configuring Oracle Portal, supply the Portal schema name and password that was used to create the **PORTAL schema** using Repository Creation Utility (RCU):

- Portal Schema
Specify the name of your Oracle Portal schema. Use the format prefix_PORTAL.
- Portal Schema Password
Specify the password for your Oracle Portal schema.

If you are configuring Oracle Discoverer, supply the Discoverer schema name and password that was used to create the **DISCOVERER schema** using Repository Creation Utility (RCU):

- Discoverer Schema
Specify the name of your Oracle Discoverer schema. Use the format prefix_DISCOVERER.
- Discoverer Schema Password
Specify the password for your Oracle Discoverer schema.

9). Specify the Portlet Schema as shown below. Click **Next** to continue.



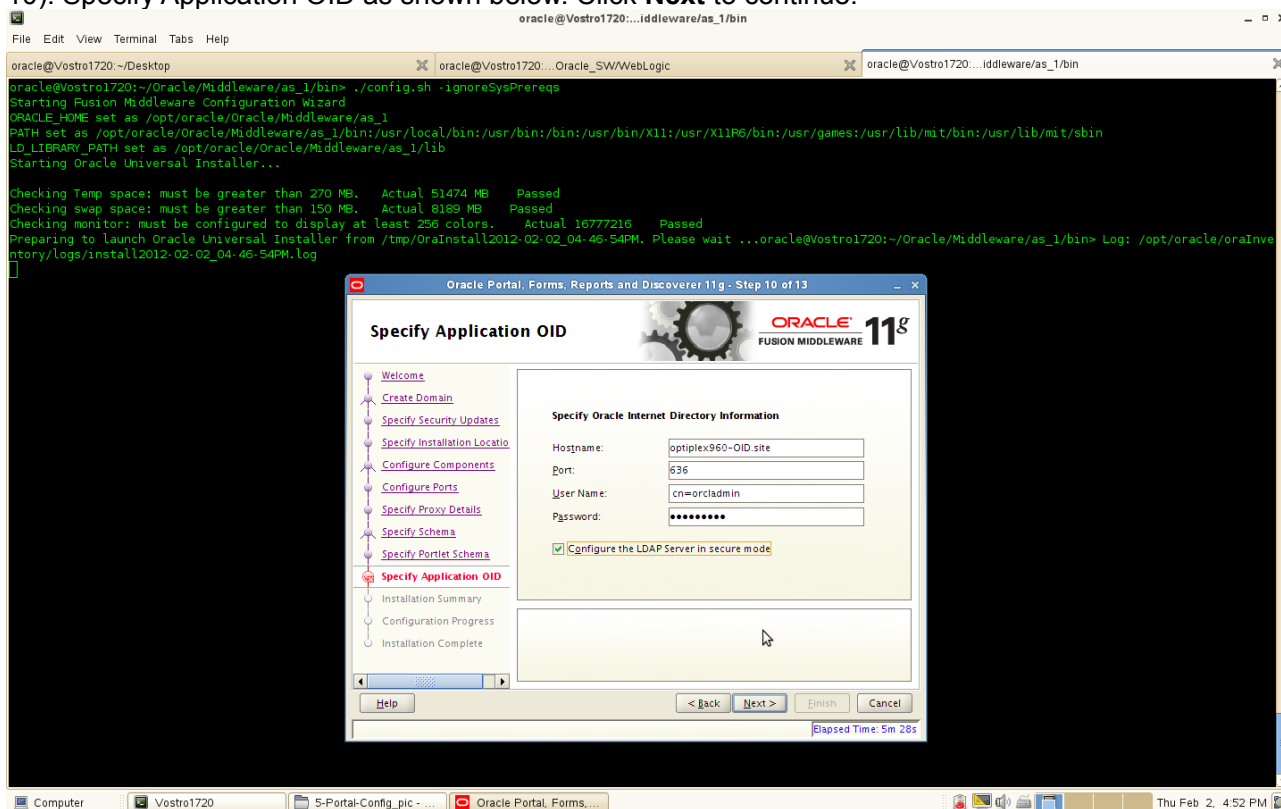
This screen is only visible if Oracle Portal was selected on the Configure Components Screen, and your database contains 11g Release 1 (11.1.1) schemas. If your database contains schema from 10g Release 2 (10.1.2) or earlier, you will not see this screen.

Supply the Portlet schema name and password that was used to create the PORTLET schema using Repository Creation Utility (RCU):

- Portlet Schema
Specify the name of your Oracle Portlet schema. Use the format prefix_PORTLET.
- Portlet Schema Password

Specify the password for your Oracle Portlet schema

10). Specify Application OID as shown below. Click **Next** to continue.



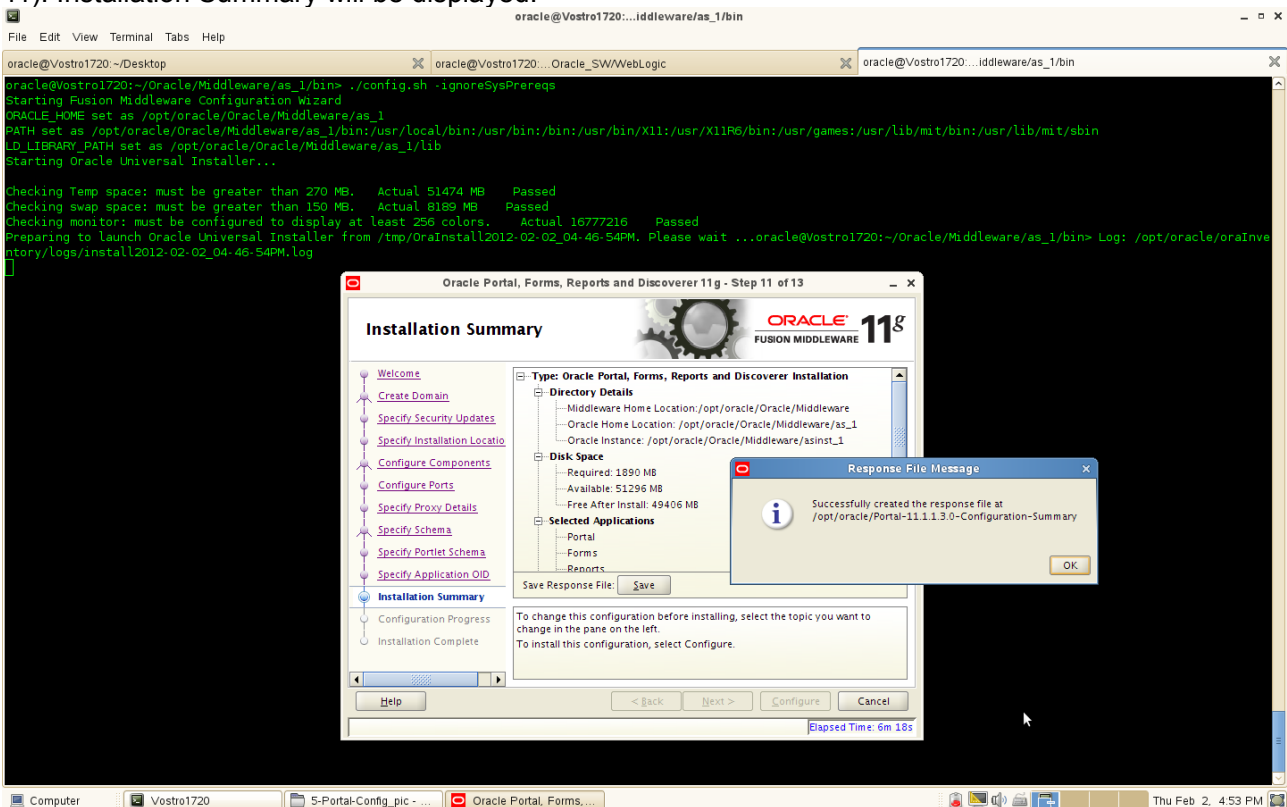
If you selected Oracle Portal on the Configure Components Screen, you must provide credentials to connect to an Internet Directory server that is up and running. Specify the following credentials:

- **Hostname**
Enter the host name of your LDAP server.
- **Port**
Enter the port number of your LDAP server. If you do not know the port number, you can run the `netstat -an` command from the command line to see the port numbers currently being used.
- **User Name**
Enter an existing LDAP user name with superuser privileges. The default user name is `cn=orcladmin`.
- **Password**
Enter the LDAP user password.

If you did not select **Oracle Portal** on the Configure Components Screen, and you want to configure your component to use an existing Internet Directory server, select **Use Application Level Identity Store** and enter the credentials to connect to the server.

Select **Configure the LDAP Server in secure mode** to configure the LDAP server in secure mode. Make sure to specify the secure port number in the Port field if you select this option.

11). Installation Summary will be displayed.



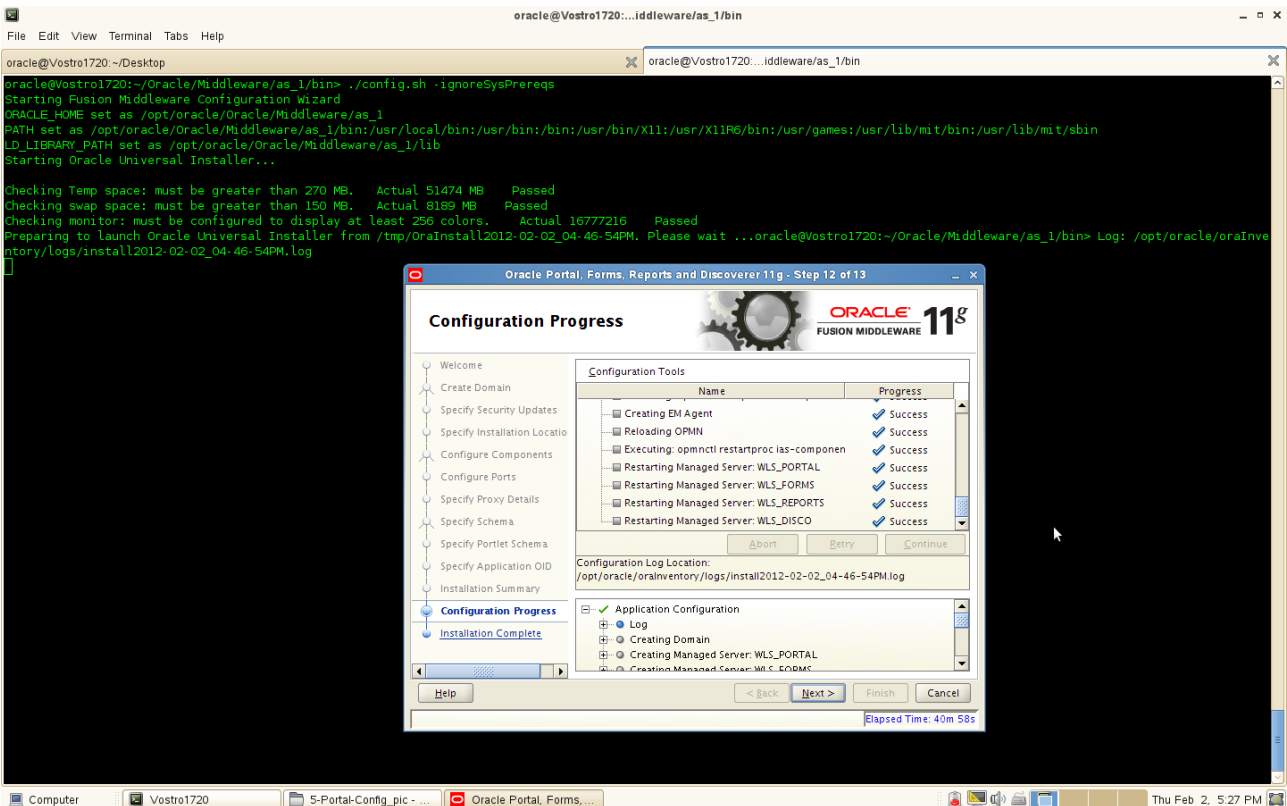
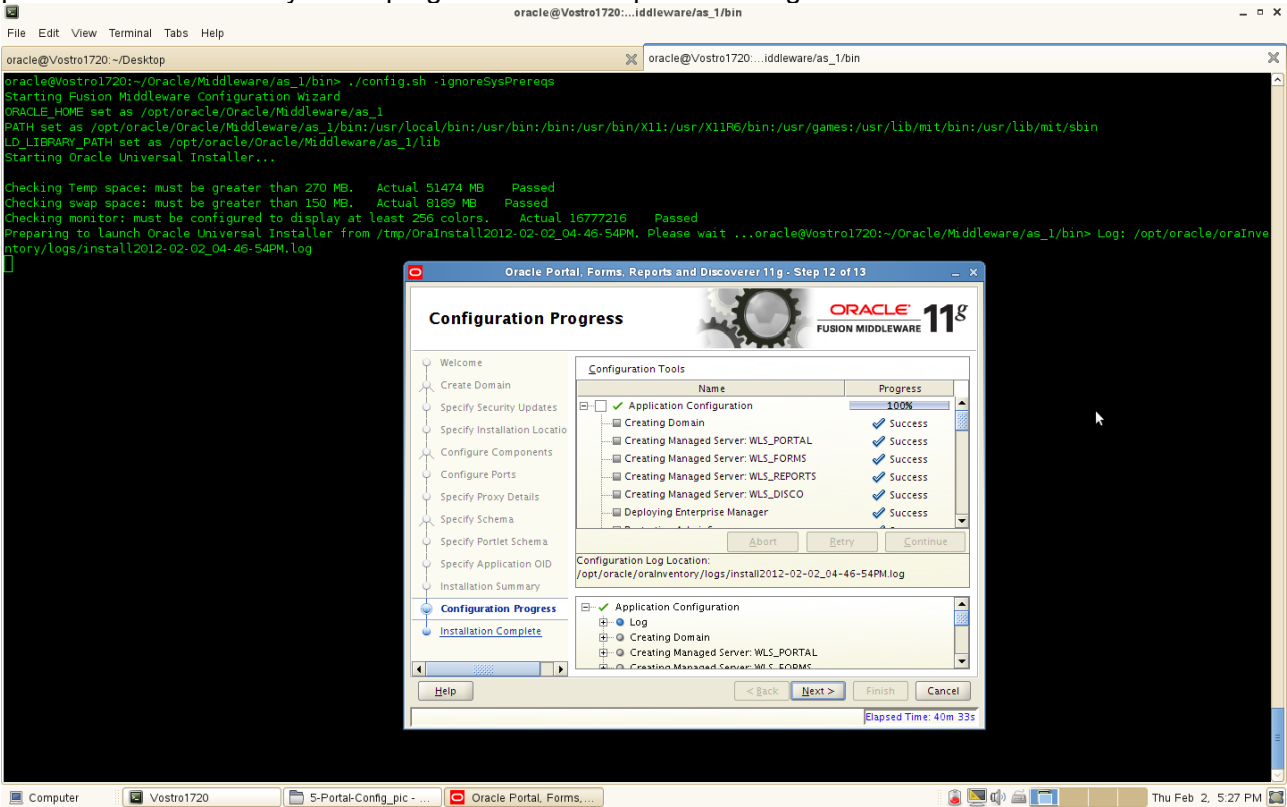
Review the information on this screen, and click **Configure** to begin the configuration. The operations summarized on this page will be performed when you click Install.

If you want to make any changes to the configuration before starting the installation, use the navigation pane and select the topic you want to edit.

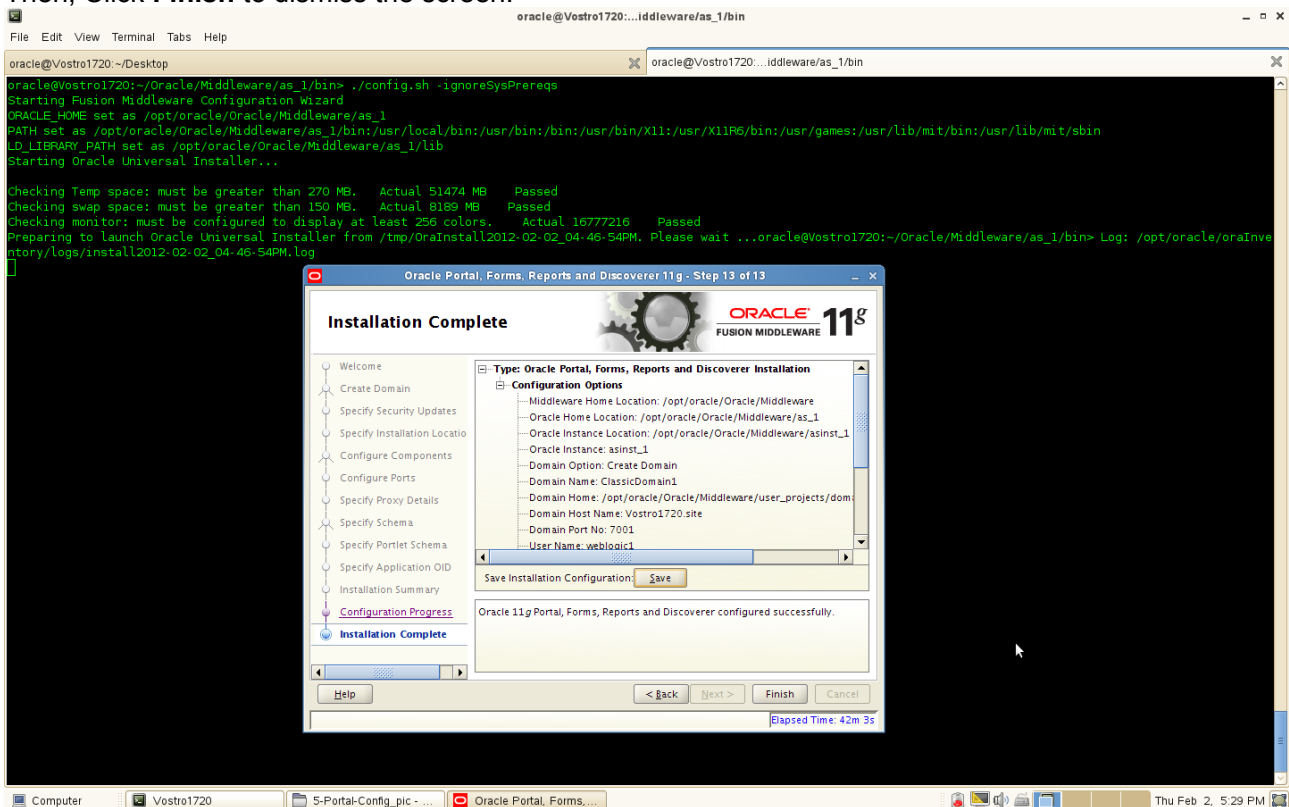
If you want to save this configuration to a text file, click **Save**. This file can be used later if you choose to perform the same installation from the command line.

Click **Configure** to continue.

12). By clicking **Configure**, configuration Process will be displayed as shown below. The configuration process screen shows you the progress of the component configuration.



Then, Click **Finish** to dismiss the screen.



The Oracle Portal, Forms, Reports and Discoverer installation and configuration are completed, a installation configuration file as following:

Type: Oracle Portal, Forms, Reports and Discoverer Installation
Configuration Options

- Middleware Home Location: /opt/oracle/Oracle/Middleware
- Oracle Home Location: /opt/oracle/Oracle/Middleware/as_1
- Oracle Instance Location: /opt/oracle/Oracle/Middleware/asinst_1
- Oracle Instance: asinst_1
- Domain Option: Create Domain
- Domain Name: ClassicDomain1
- Domain Home: /opt/oracle/Oracle/Middleware/user_projects/domains/ClassicDomain1
- Domain Host Name: Vostro1720.site
- Domain Port No: 7001
- User Name: weblogic1
- Automatic Port Detection: true
- Administrator Console: http://Vostro1720.site:7001/console
- EM Console: http://Vostro1720.site:7001/em
- EMAgent URL: http://Vostro1720.site:5155/emd/main
- Portal URL: http://Vostro1720.site:8090/portal/pls/portal
- Forms URL: http://Vostro1720.site:8090/forms/frmservlet
- Reports URL: http://Vostro1720.site:8090/reports/rwservlet
- Discoverer Viewer URL: http://Vostro1720.site:8090/discoverer/viewer
- Discoverer Plus URL: http://Vostro1720.site:8090/discoverer/plus

Portals, Forms, Reports and Discoverer Post-install Tests

1. Check that all the instance processes are up.

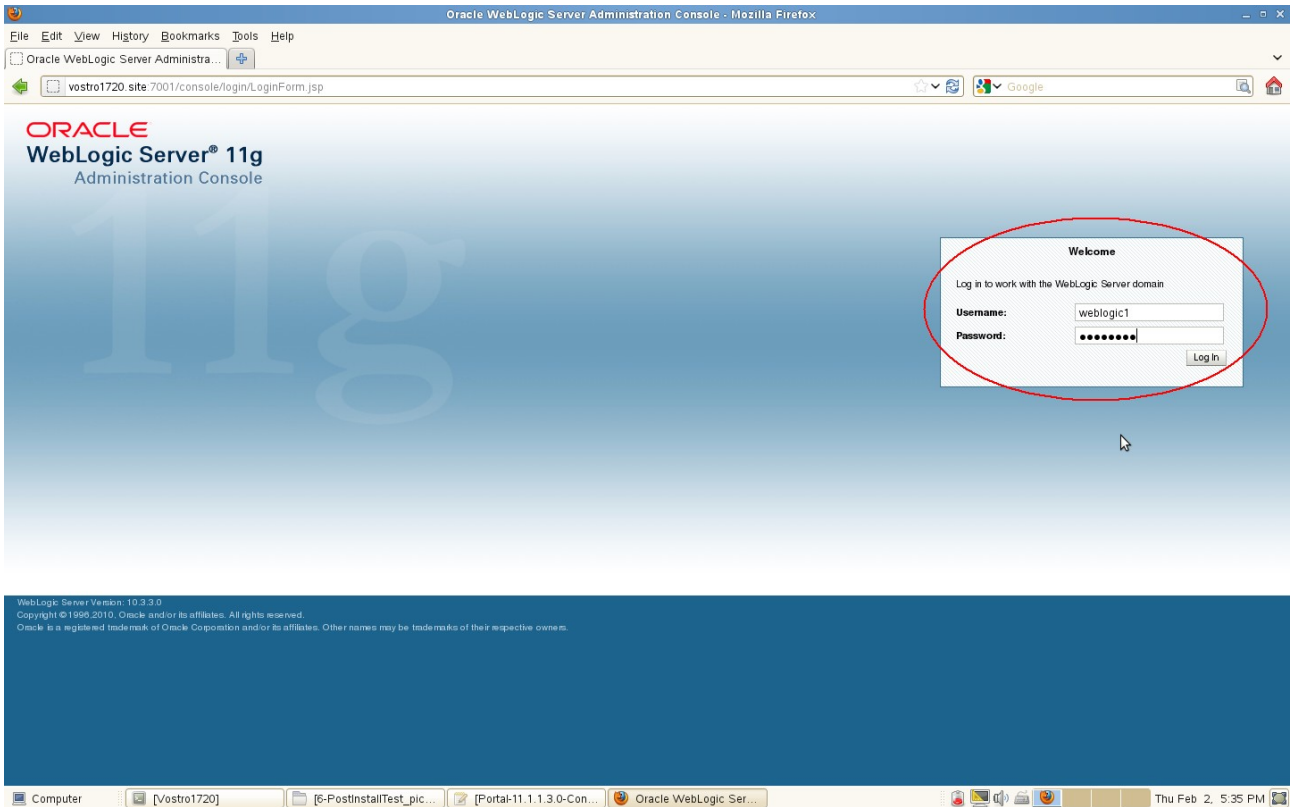
a. Go to <INSTANCE_HOME>/bin and run the command “./opmnctl status -l” to see the status of the processes.

Screenshot: opmnctl status

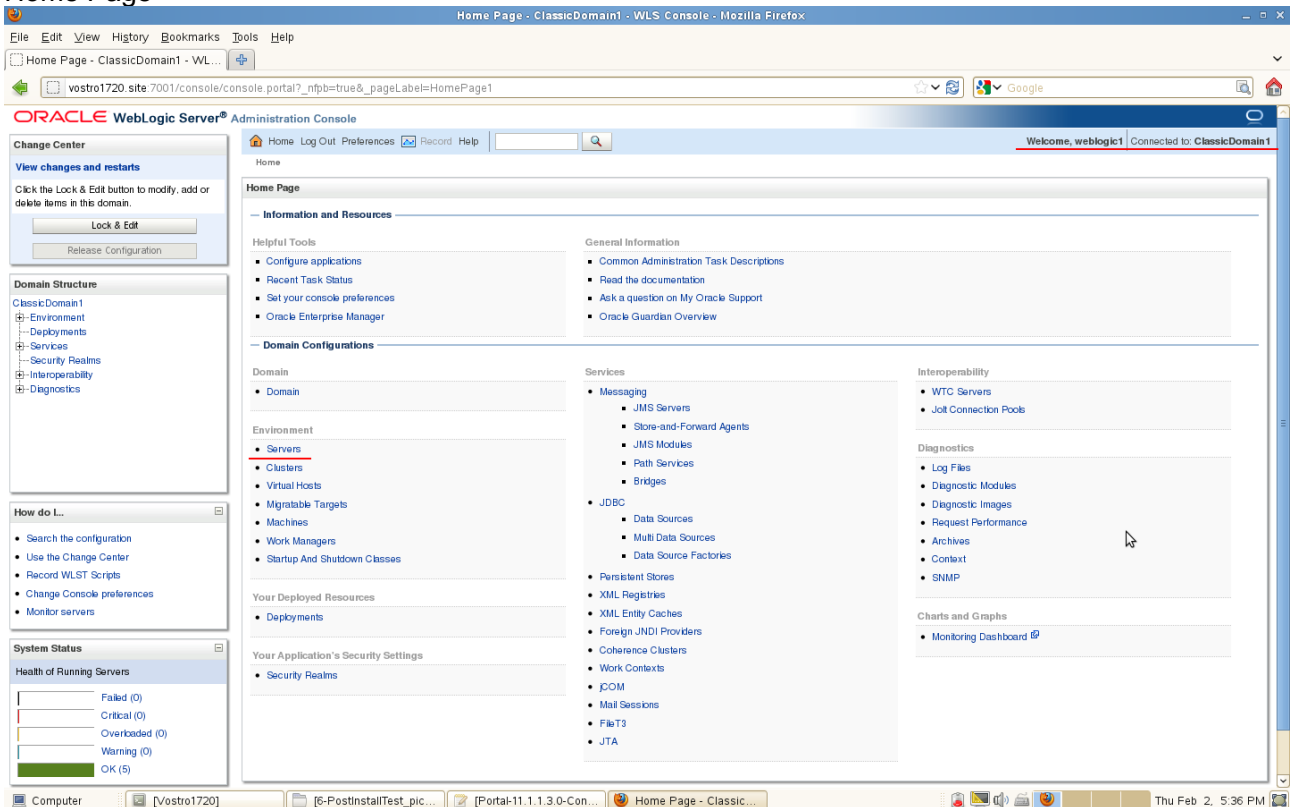
```

oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl status -l
Processes in Instance: asinst_1
-----
ias-component | process-type | pid | status | uid | memused | uptime | ports
-----
emagent_asinst_1 | EMAGENT | 1256 | Alive | 1373897140 | 12748 | 0:16:39 | N/A
ReportsServer_Vostro1720_asins | ReportsServerComp~ | 1087 | Alive | 1373897139 | 12748 | 0:17:56 | N/A
Discoverer_asinst_1 | PreferenceServer | 805 | Alive | 1373897138 | 89068 | 0:25:11 | N/A
Discoverer_asinst_1 | ServicesStatus | 804 | Alive | 1373897137 | 11460 | 0:25:11 | N/A
webcache1 | WebCache-admin | 639 | Alive | 1373897136 | 148800 | 0:25:36 | http_admin:8091
webcache1 | WebCache | 640 | Alive | 1373897135 | 169876 | 0:25:36 | http_stat:8092,http_invalidation:8093,https_listen:8094,http_li
ten:8090
ohs1 | OHS | 518 | Alive | 1373897134 | 207160 | 0:25:49 | https:8889,https:8890,http:8888
    
```

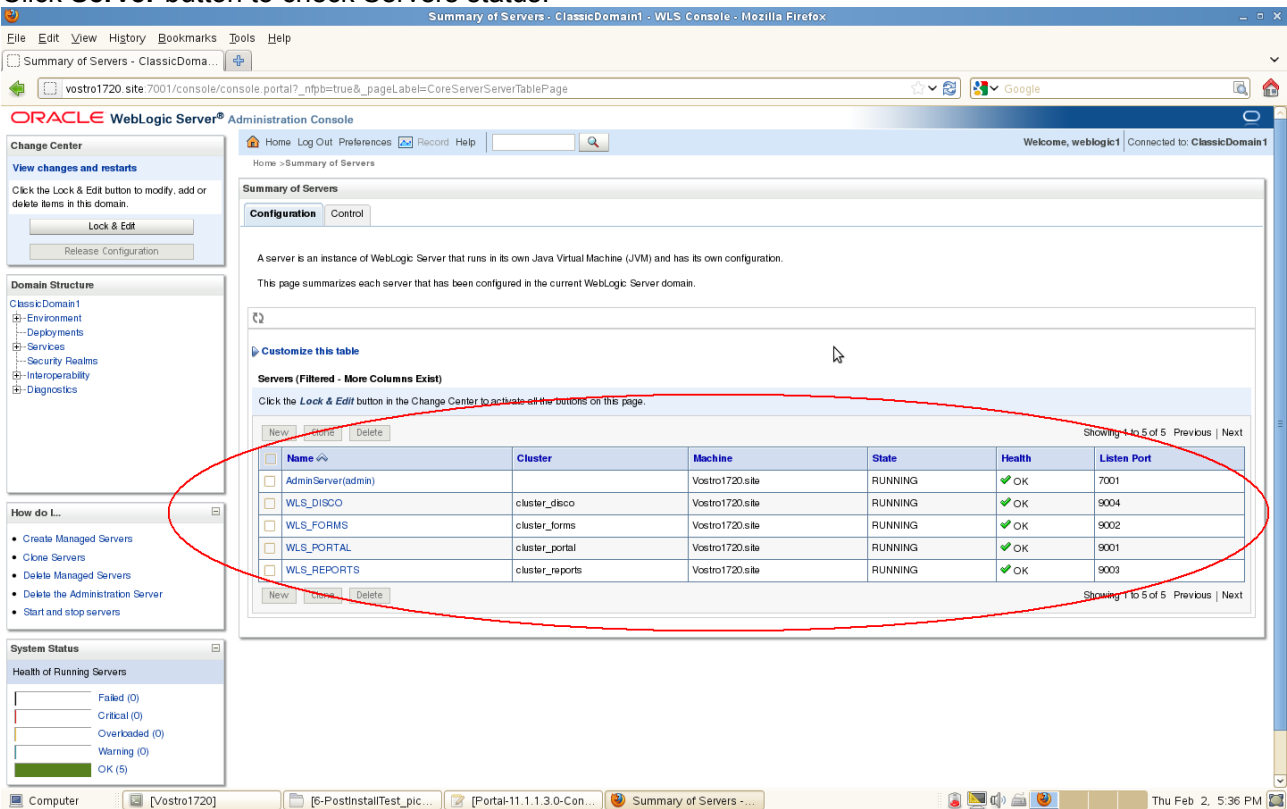
b. Access the Weblogic Admin server URL http://<hostname>:<domain_port>/console and check that the domain managed server are all up.



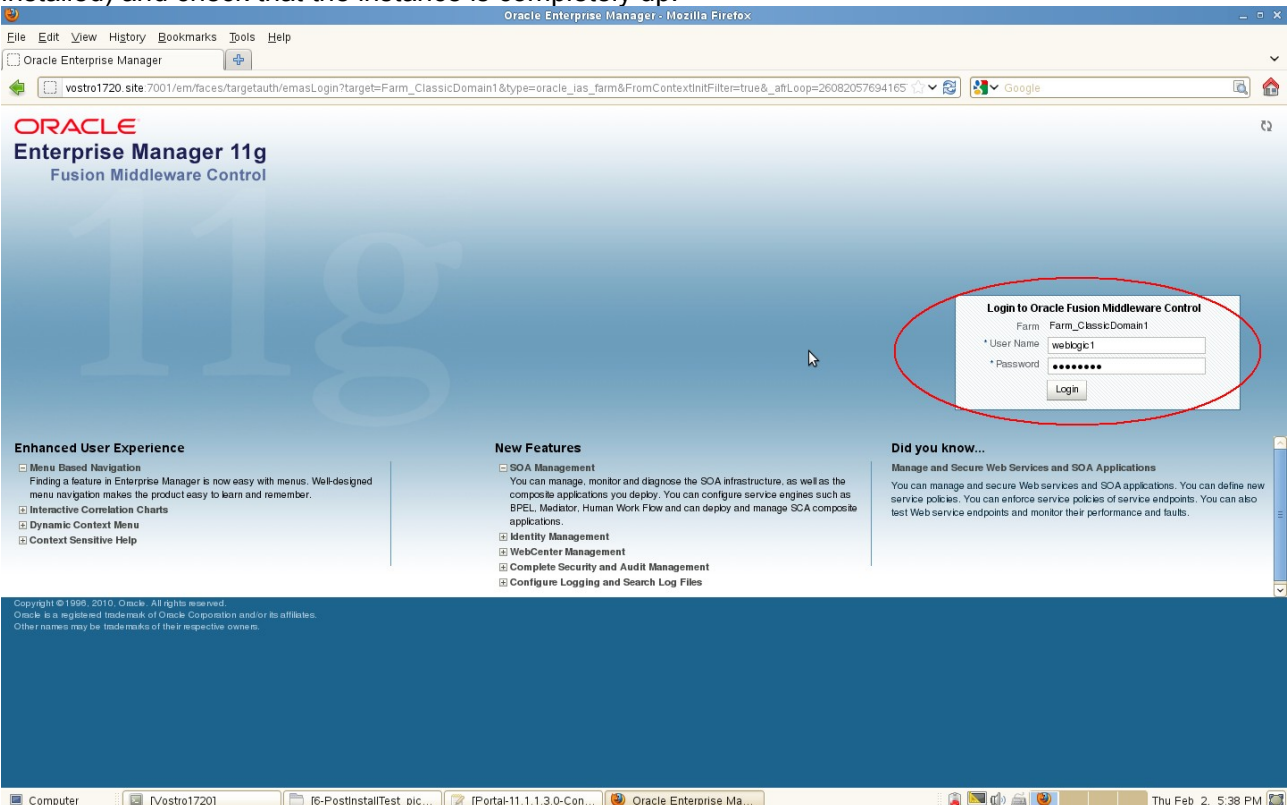
Home Page



Click **Server** button to check Servers status.



c. Access the Enterprise Manager URL: http://<hostname>:<domain_port>/em (if this was selected and installed) and check that the instance is completely up.



EM Home Page

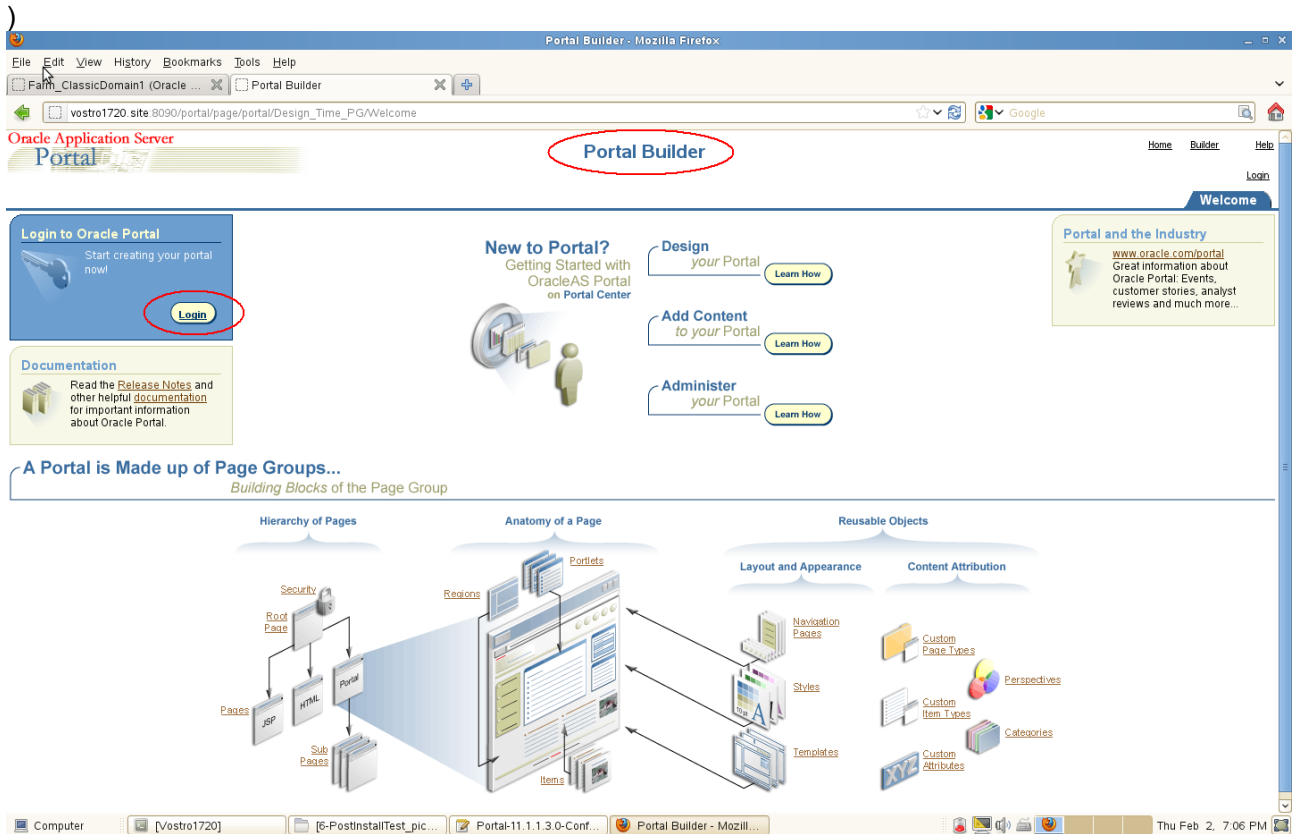
2. Access the EM Agent <http://hostname:5155/emd/main> , a page as shown below.

3. Tests for Portal

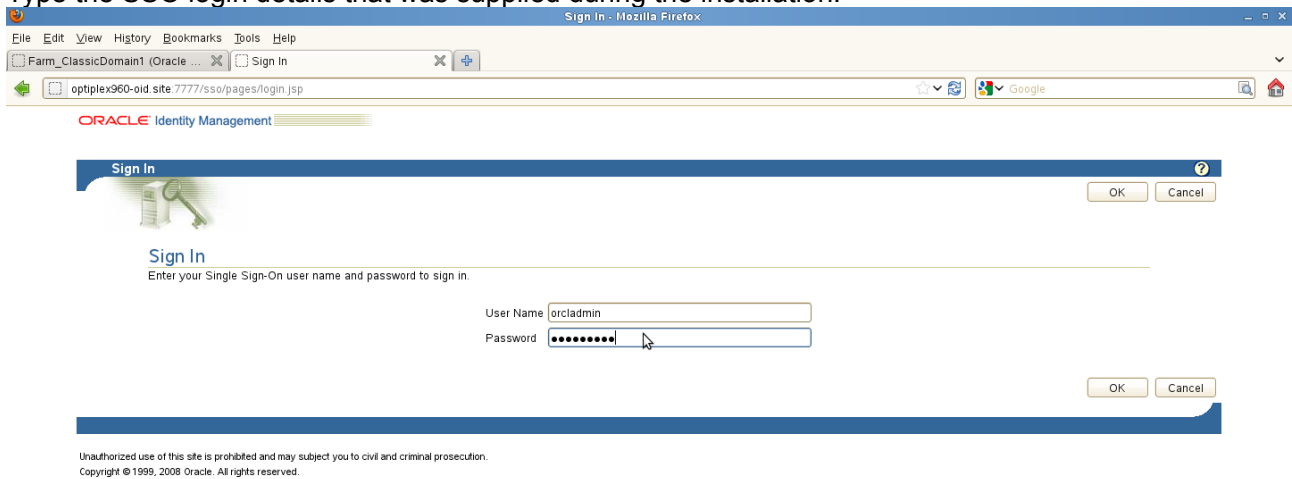
a. Access the Portals URL http://hostname:< webcache_port>/portal/pls/portal , click **Login** to continue.

(Note:

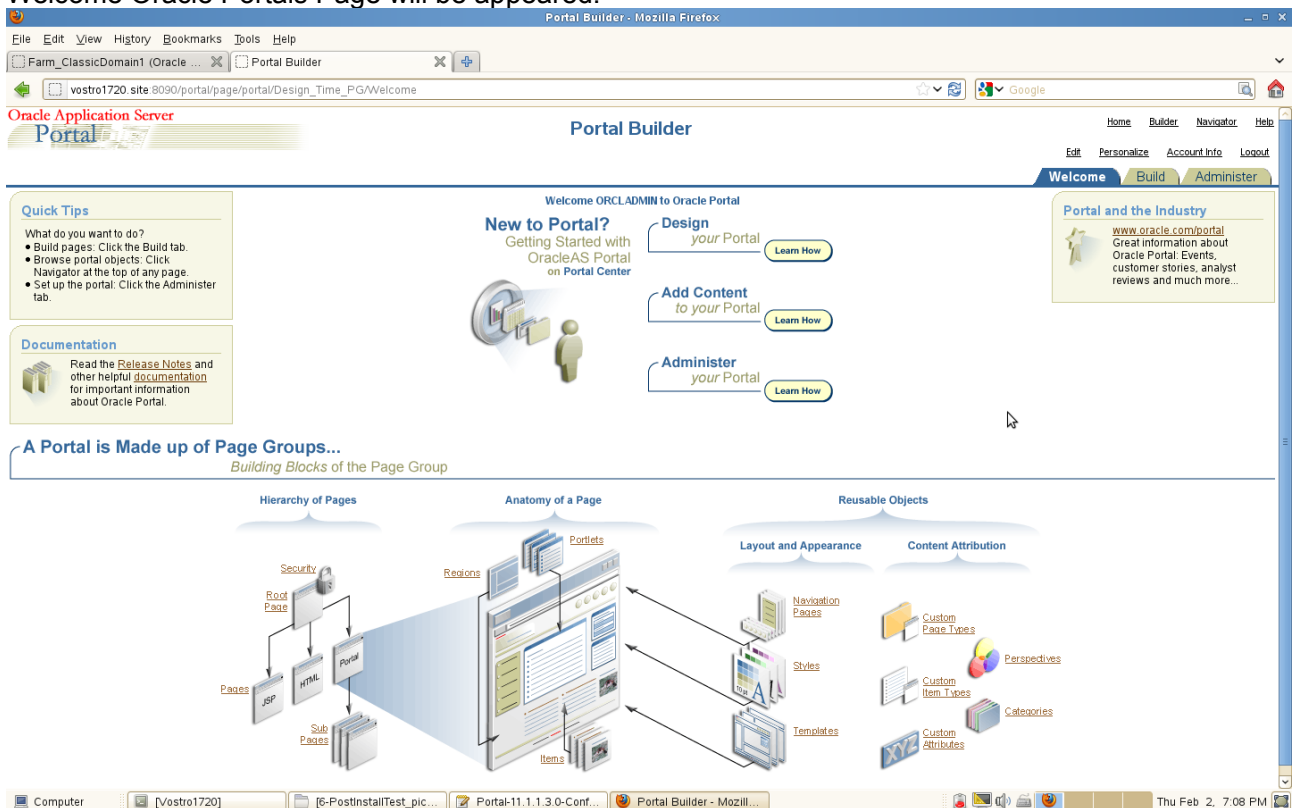
Make sure that you were able to ping the Portal...and Discoverer server from the Oracle DB server via console prompt, else edit the hosts file in etc directory and add the IP address with host name of the Portal server.



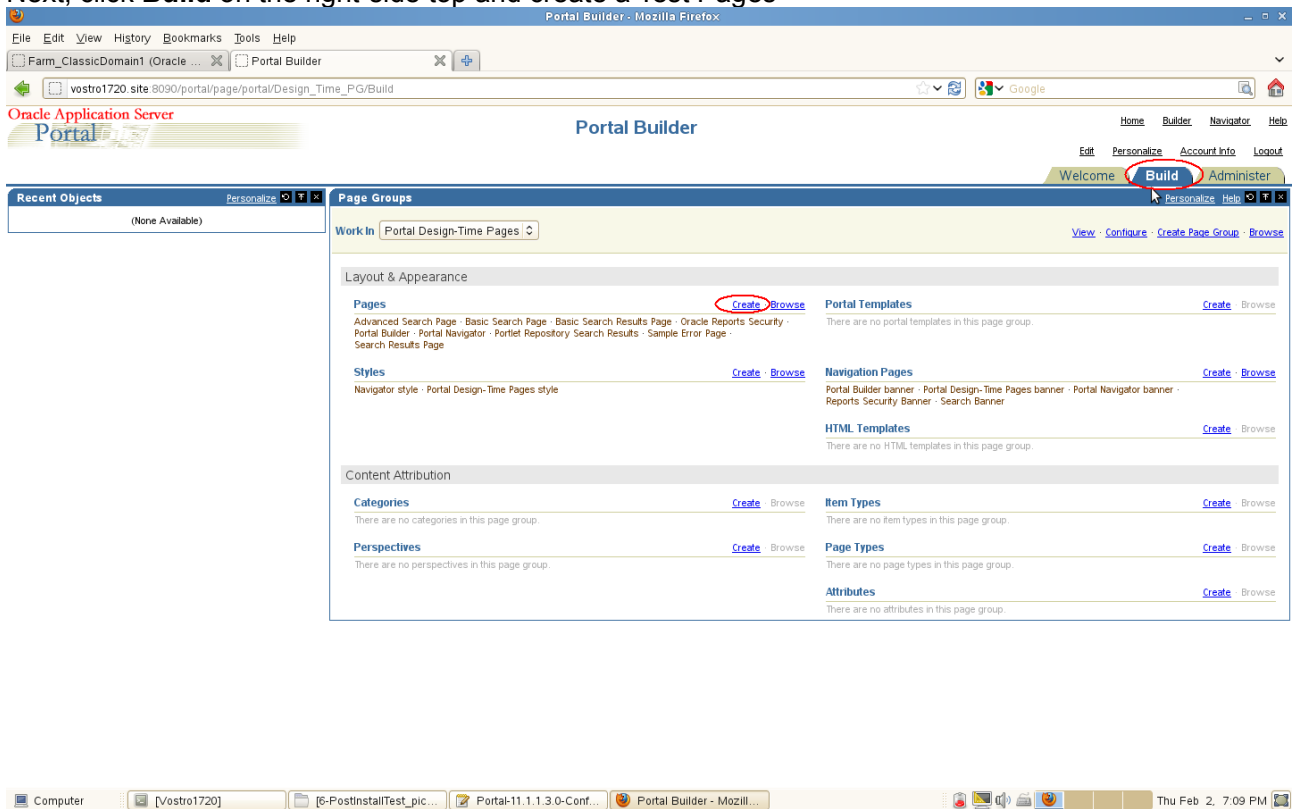
Type the SSO login details that was supplied during the installation.



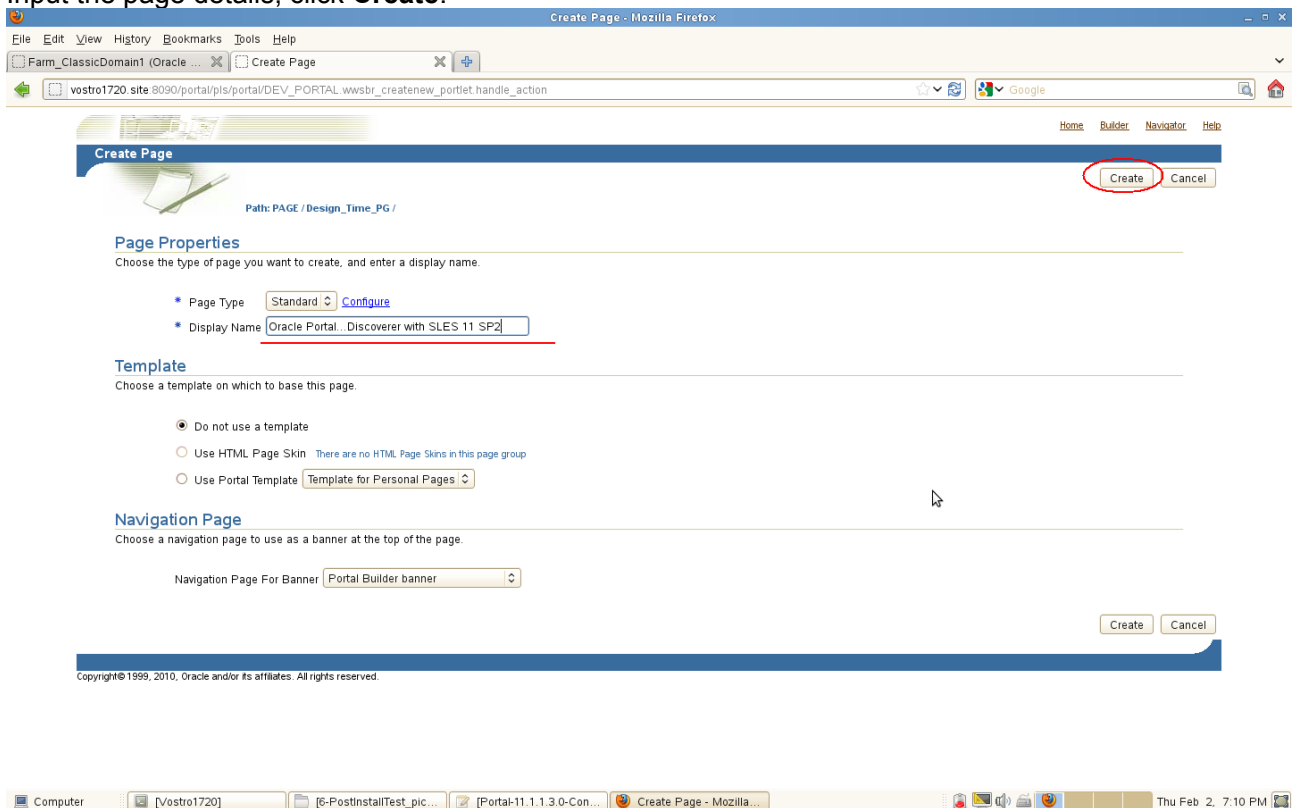
Welcome Oracle Portals Page will be appeared.



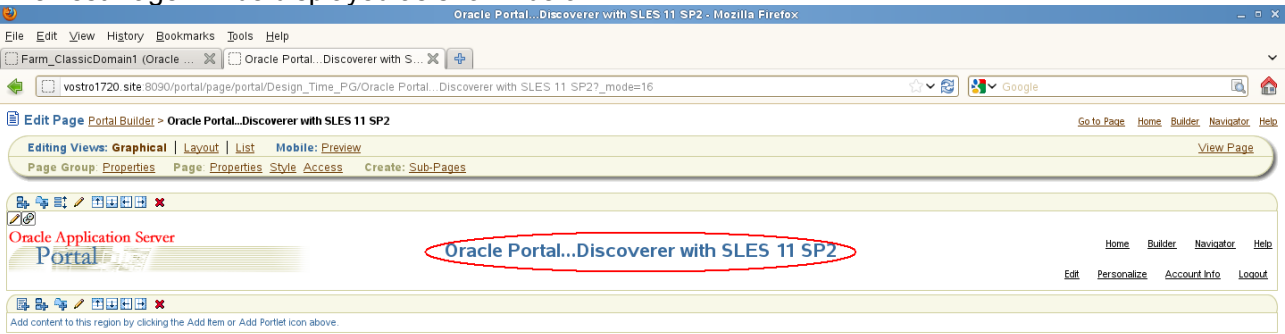
Next, click **Build** on the right-side top and create a Test Pages



Input the page details, click **Create**.

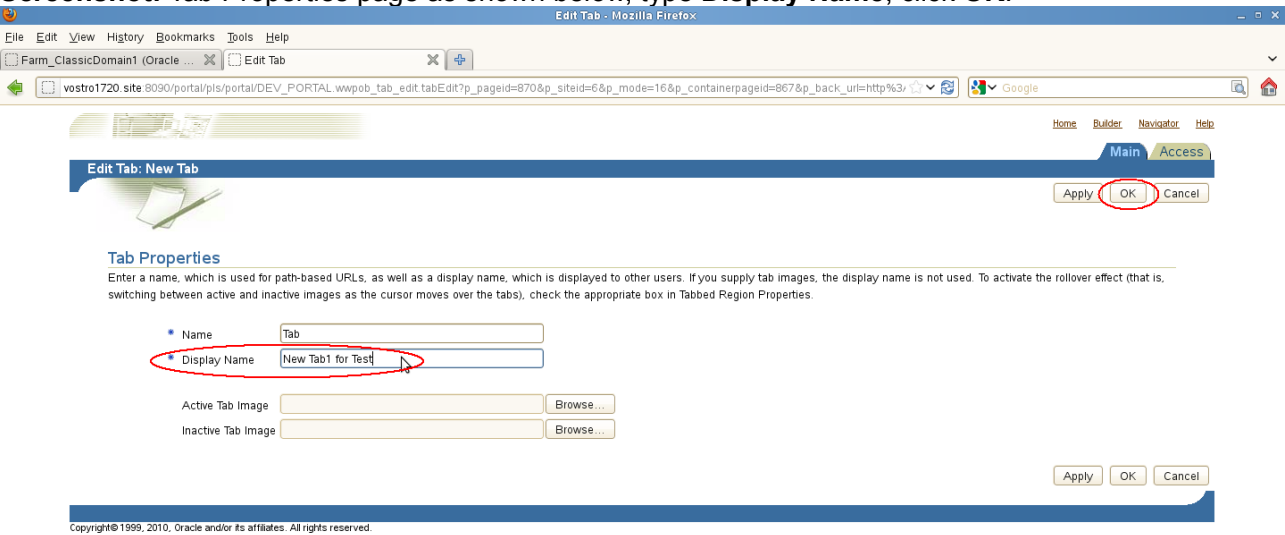


The Test Page will be displayed as shown below.

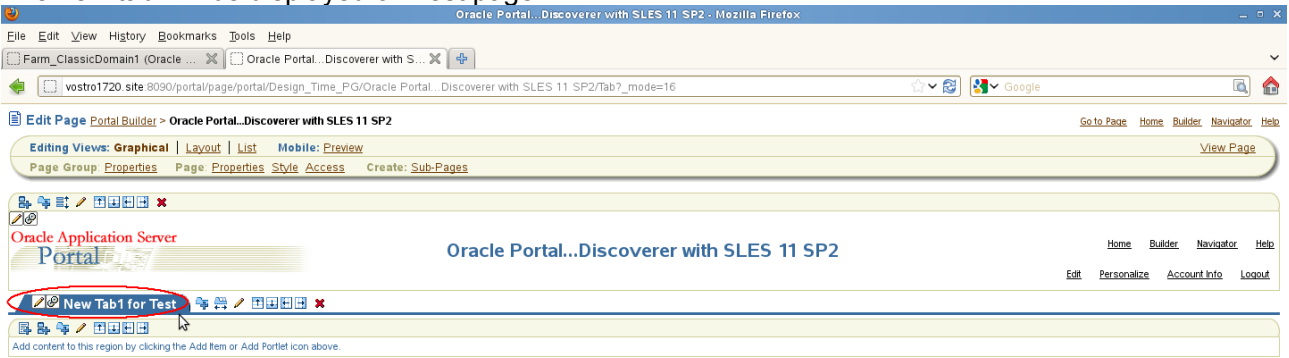


Next, add Tab and Image on the page for test.

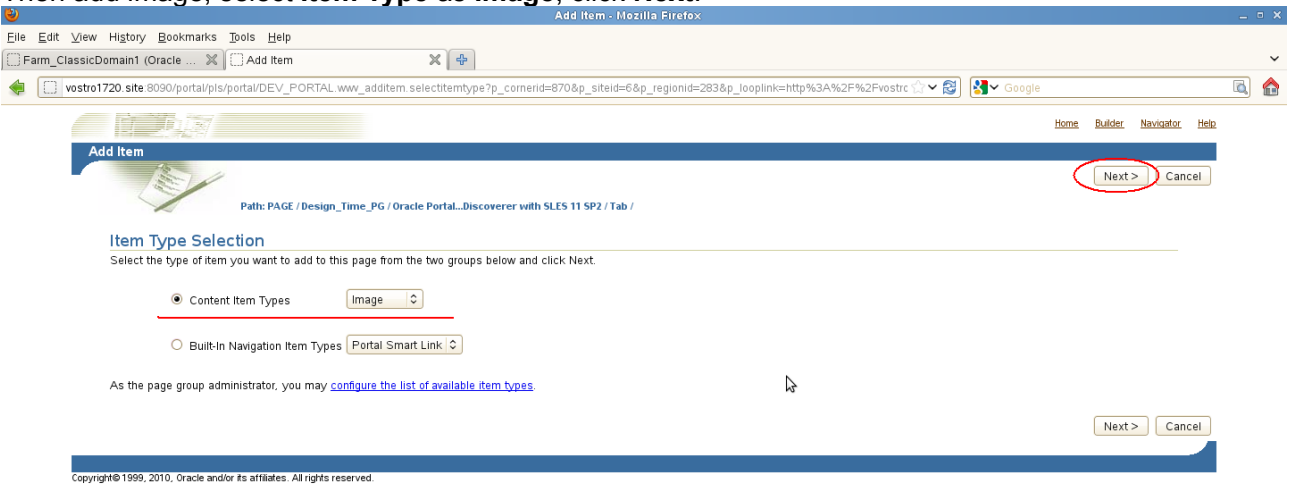
Screenshot: Tab Properties page as shown below, type Display Name, click OK.



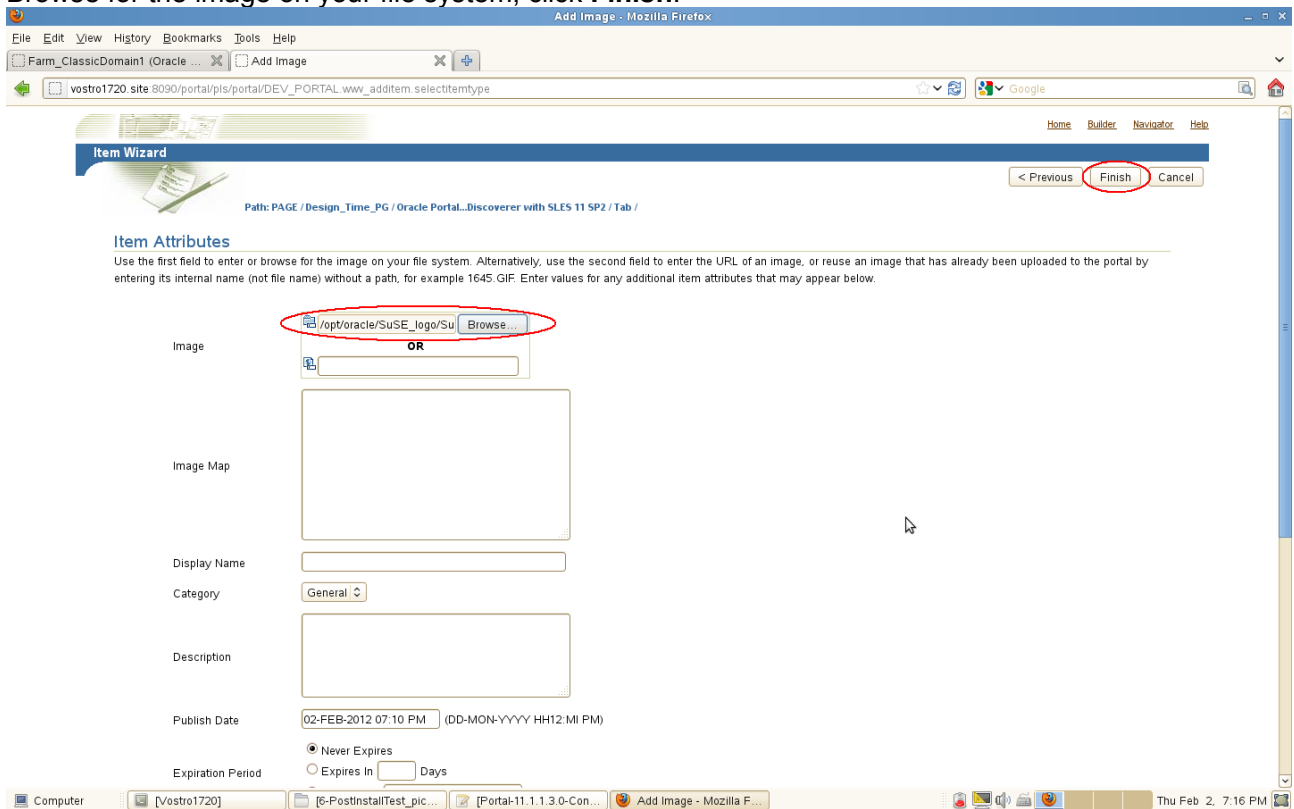
The new tab will be displayed on Test page.



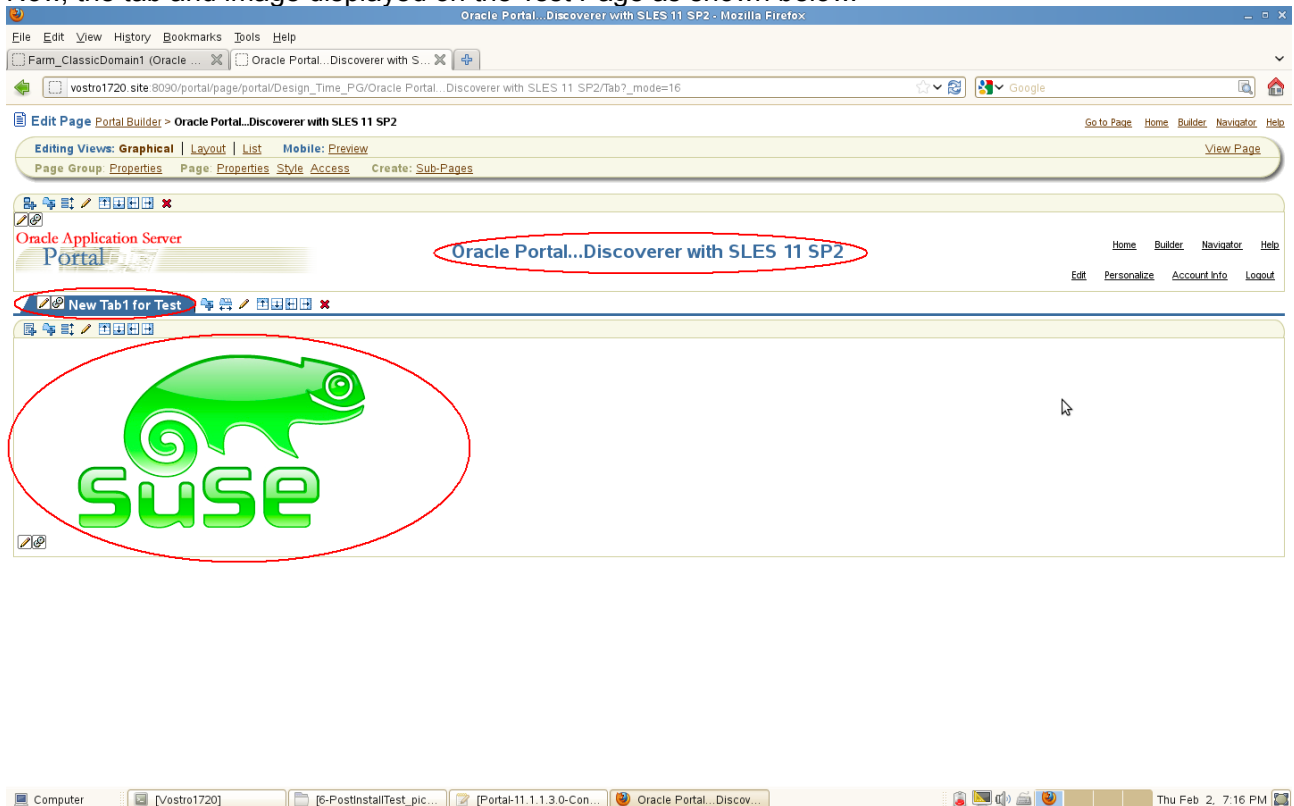
Then add image, select **Item Type as Image**, click **Next**.



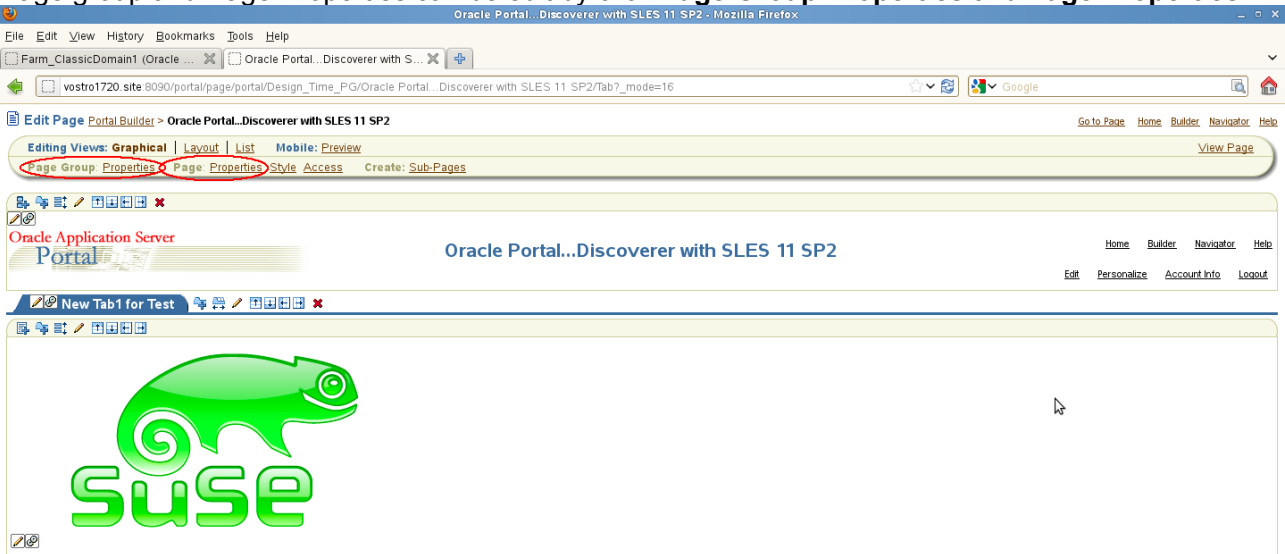
Browse for the image on your file system, click **Finish**.



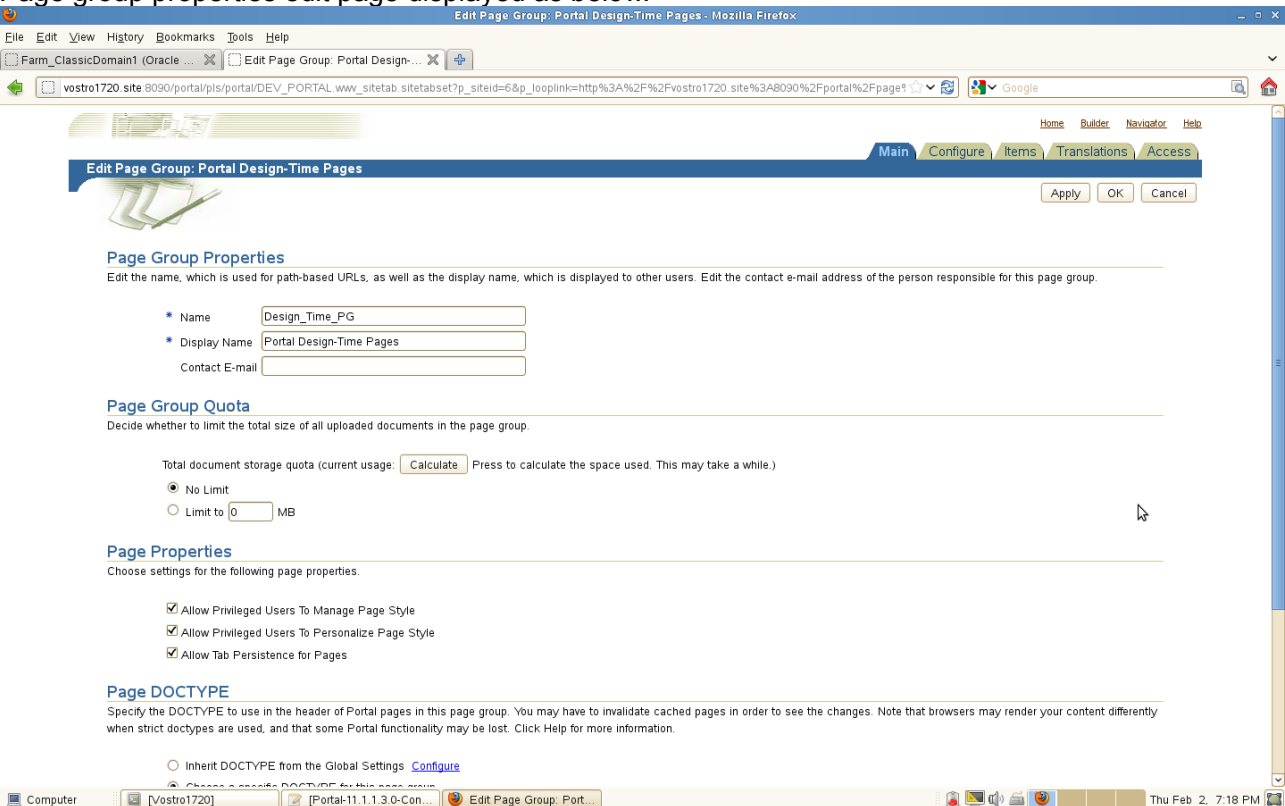
Now, the tab and image displayed on the Test Page as shown below.



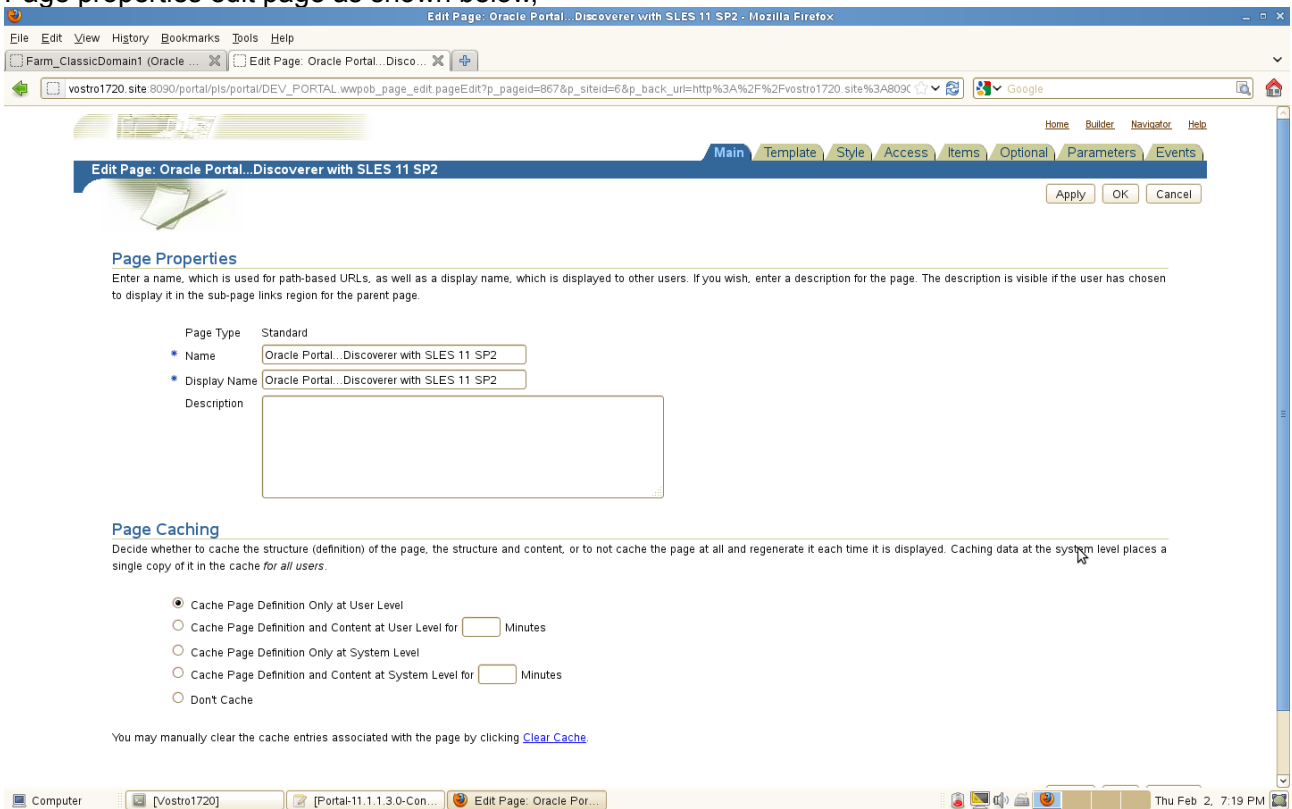
Page group and Page Properties can be edit by click **Page Group Properties** and **Page Properties**.



Page group properties edit page displayed as below.



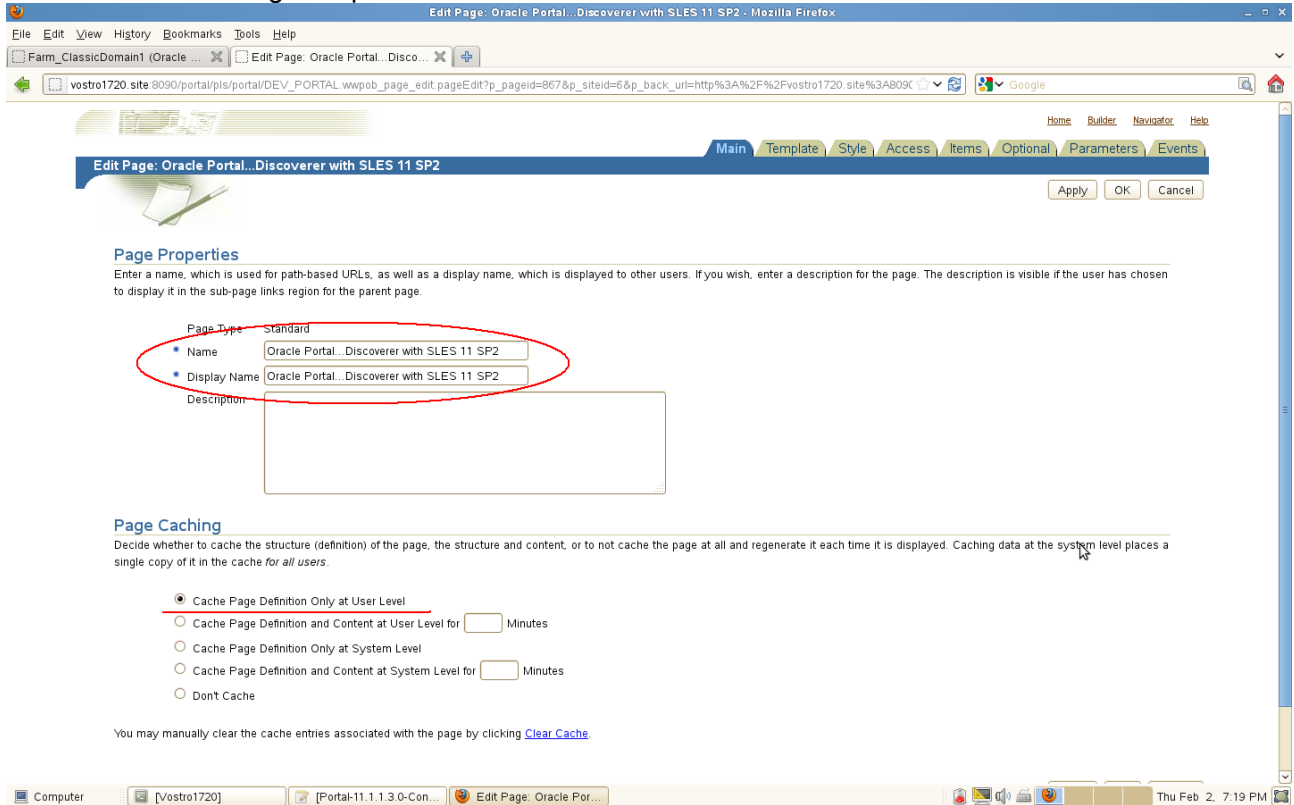
Page properties edit page as shown below,



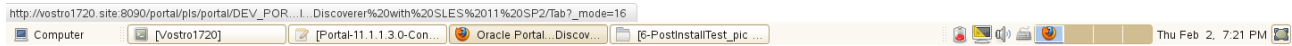
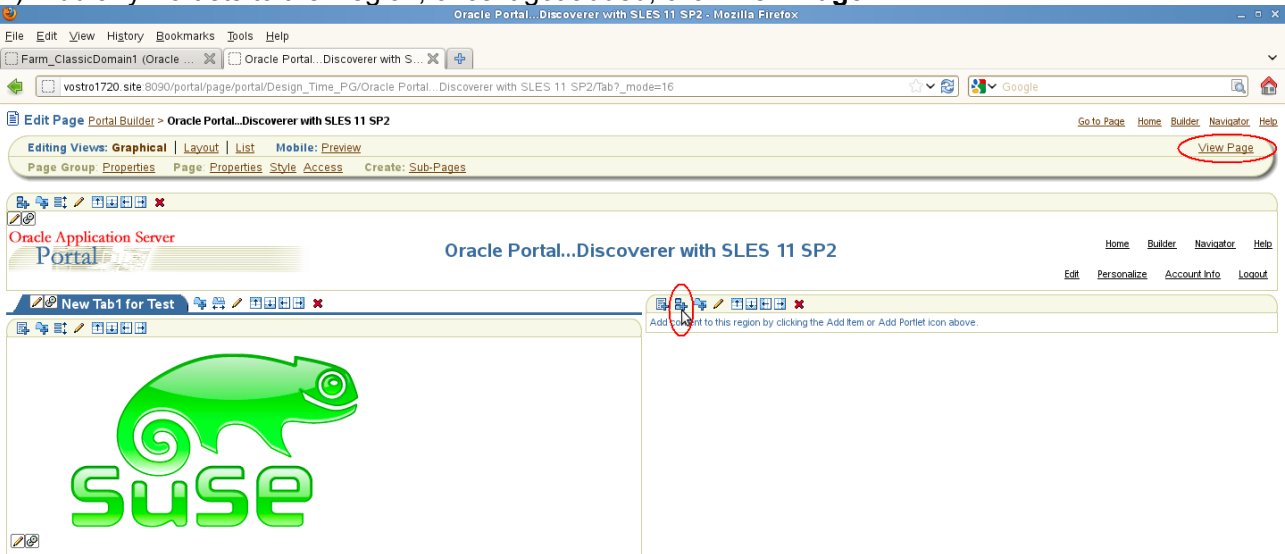
b. Change the cache levels and add regions to see invalidations happening

To verify "Change the cache levels and add regions to see invalidations happening" follow the below steps,

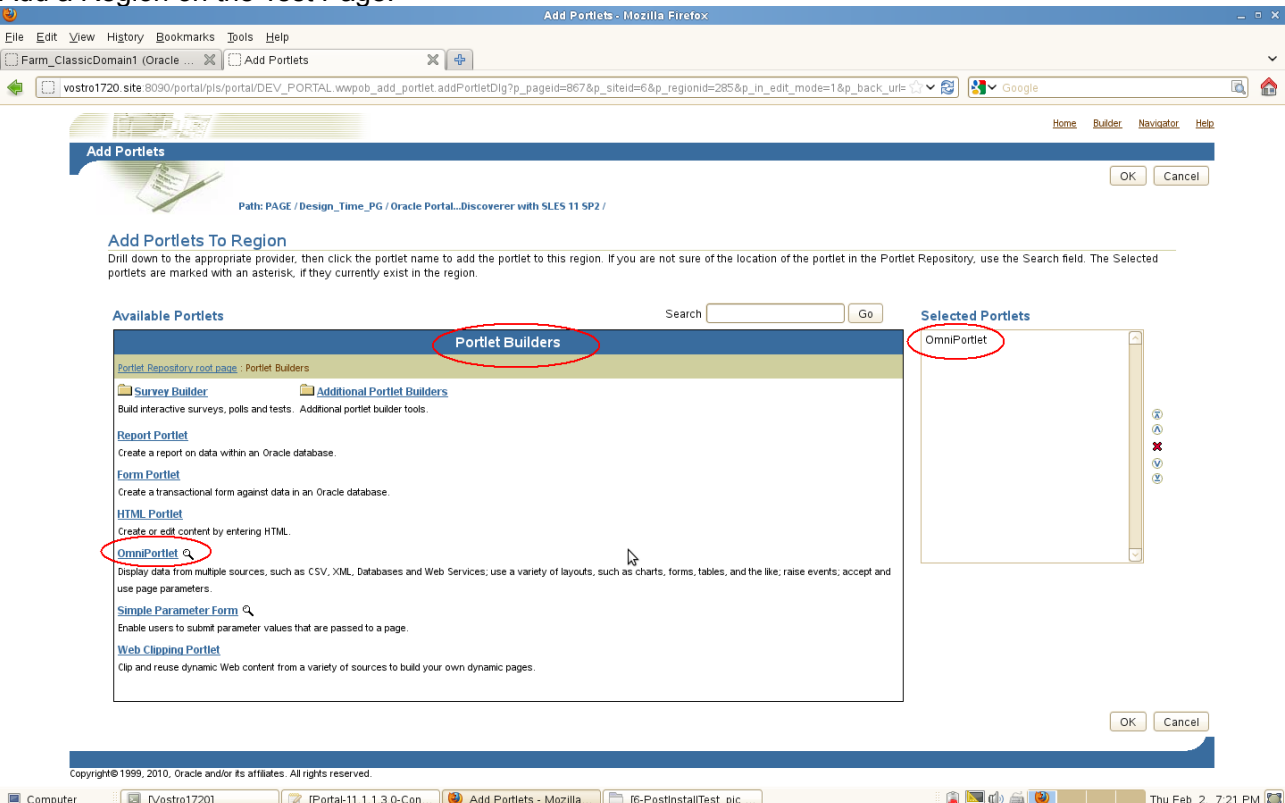
1). Create a page in any Page Group and set the Page Caching as "Cache Page Definition Only at User Level" in the Page Properties



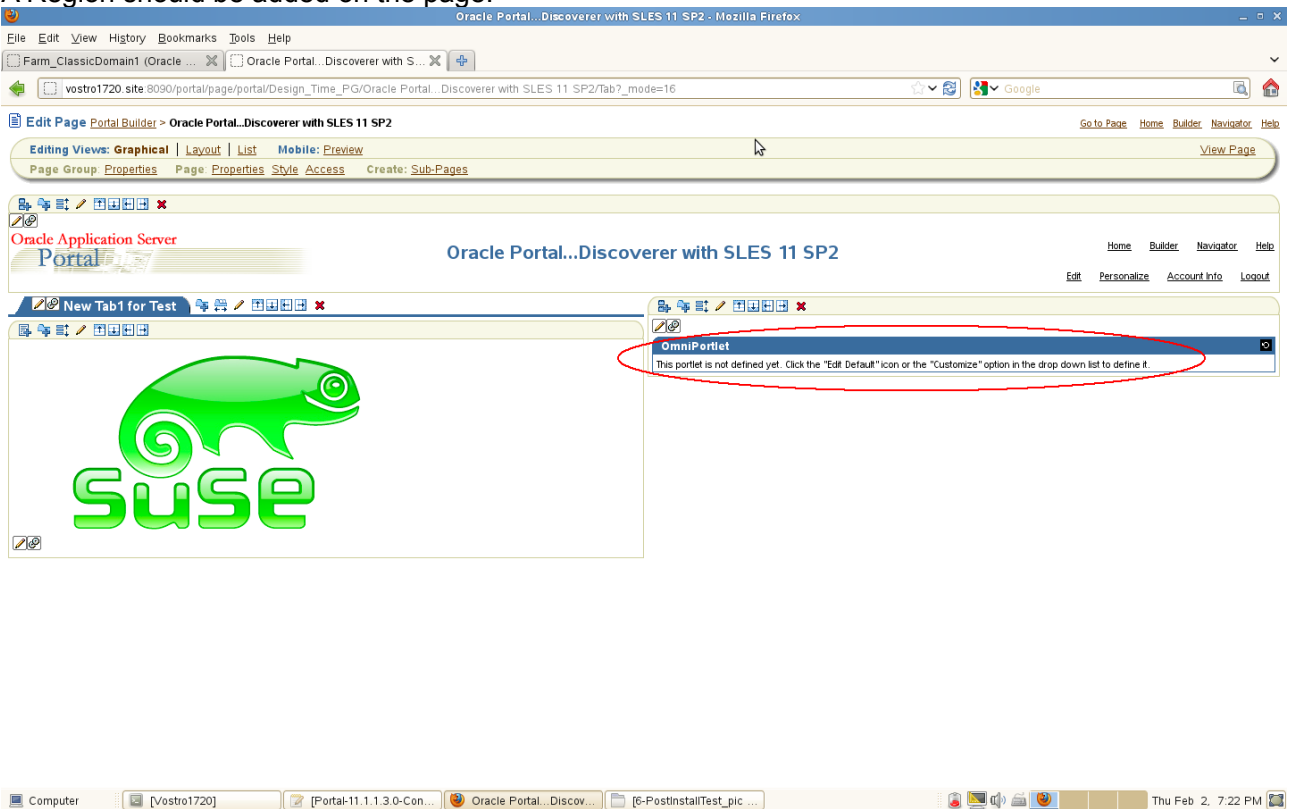
2). Add any Portlets to the Region, once it got added, click **View Page**.



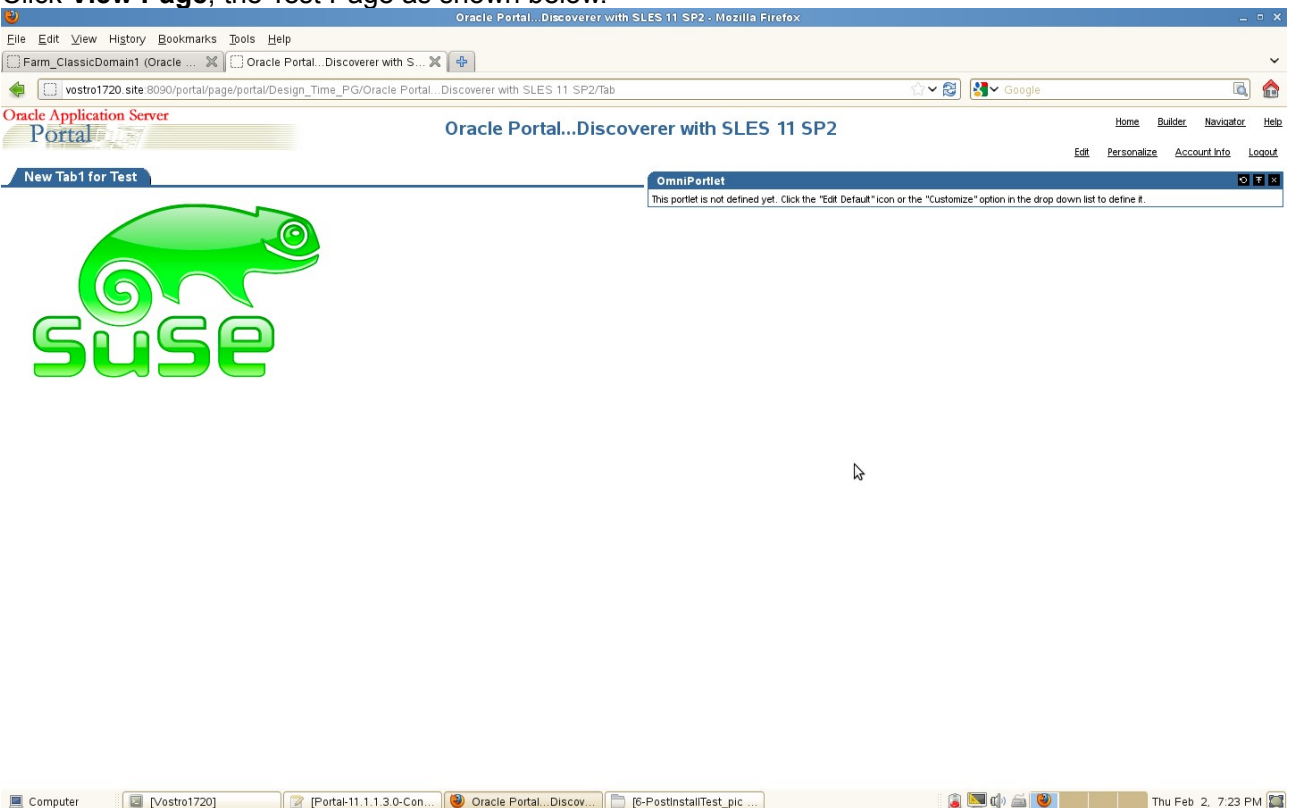
Add a Region on the Test Page.



A Region should be added on the page.



Click **View Page**, the Test Page as shown below.



3). Now copy the URL, and open the URL in a new browser. Append **?_debug=1** at the end of the URL. Web Cache should be displayed as “MISS,NEW[M], File System Cache:- null”

Oracle Portal...Discoverer with SLES 11 SP2

Home Builder Navigator Help

Edit Personalize Account Info Logout

Information for Page 410679890/254
Elapsed Time: 5888 msec
Page meta data generation time: 5885 msec (wait = 1)
Page meta data Cache Status: Web Cache:- MISS,NEW[M], File System Cache:- null
Login meta data generation time: 0 msec (wait = 0)
Login meta data Cache Status: File System Cache:- null

Stream info:5 msec
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (1024 bytes) 1 msec.
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (360 bytes) 0 msec.
processing 0 msec.
flush 4 msec.
processing 0 msec.
flush 0 msec.
processing 0 msec.
flush 0 msec.

Information for pagePortlet
Portlet Timing: 6199 msec (wait=1)
Timing Status: null
XSLT Timing: null msec
Caching information of page portlet ESI template:
Page Portlet ESI Template Cache Status: Web Cache:- MISS,NEW [M], File System Cache:- null
From Cache: Web Cache:- MISS,NEW [M], Cache Expires: 2592000 seconds, Age in Cache: 6 seconds, File System Cache:- None
From Portlet:

4). Refresh the browser, now WebCache should be displayed as “HIT [H]”

Oracle Portal...Discoverer with SLES 11 SP2

Home Builder Navigator Help

Edit Personalize Account Info Logout

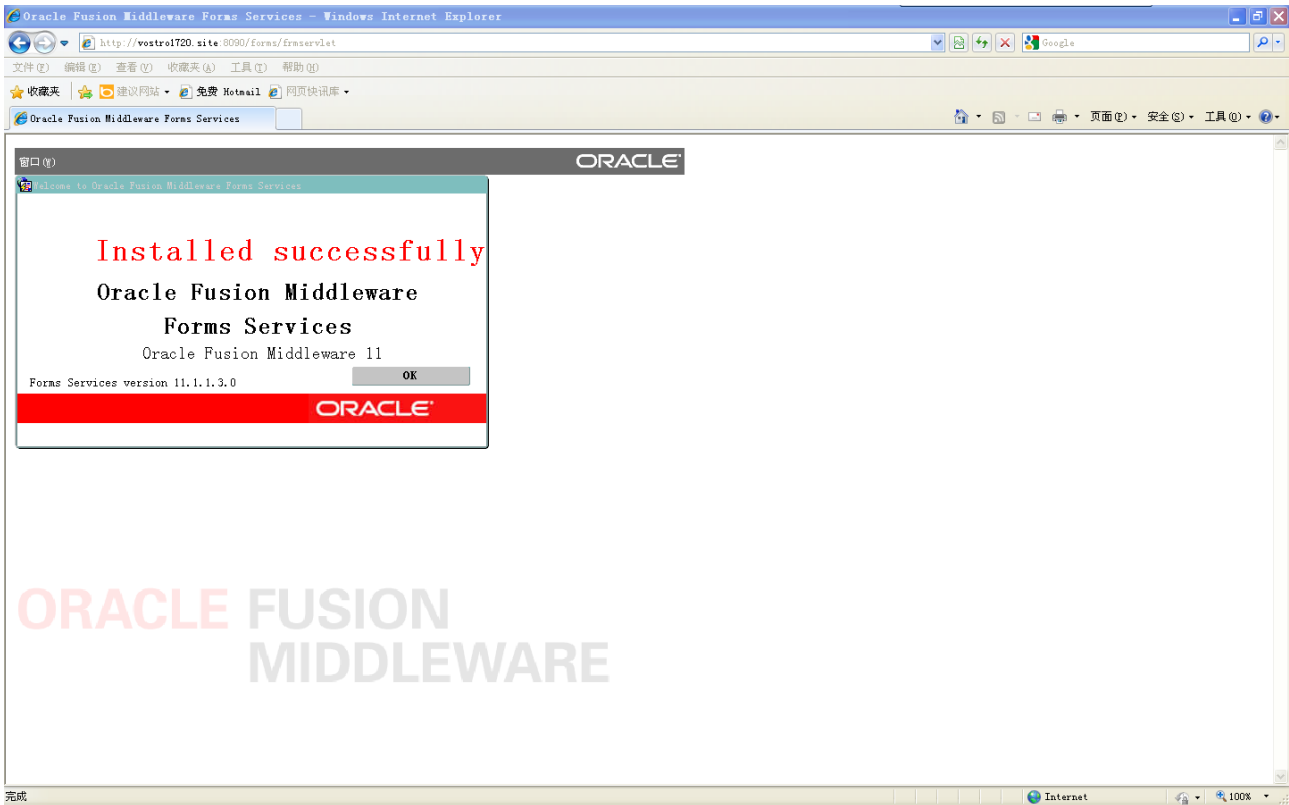
Information for Page 410679890/254
Elapsed Time: 4568 msec
Page meta data generation time: 4565 msec (wait = 0)
Page meta data Cache Status: Web Cache:- MISS,NON-CACHEABLE [N], File System Cache:- HIT,PING
Login meta data generation time: 0 msec (wait = 0)
Login meta data Cache Status: File System Cache:- null

Stream info:0 msec
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (1024 bytes) 0 msec.
processing 0 msec.
write[] (360 bytes) 0 msec.
processing 0 msec.
flush 0 msec.
processing 0 msec.
flush 0 msec.
processing 0 msec.
flush 0 msec.

Information for pagePortlet
Portlet Timing: 9590 msec (wait=0)
Timing Status: null
XSLT Timing: null msec
Caching information of page portlet ESI template:
Page Portlet ESI Template Cache Status: Web Cache:- HIT [H]
From Cache: Web Cache:- HIT [H], Cache Expires: 2592000 seconds, Age in Cache: 37 seconds.
From Portlet:

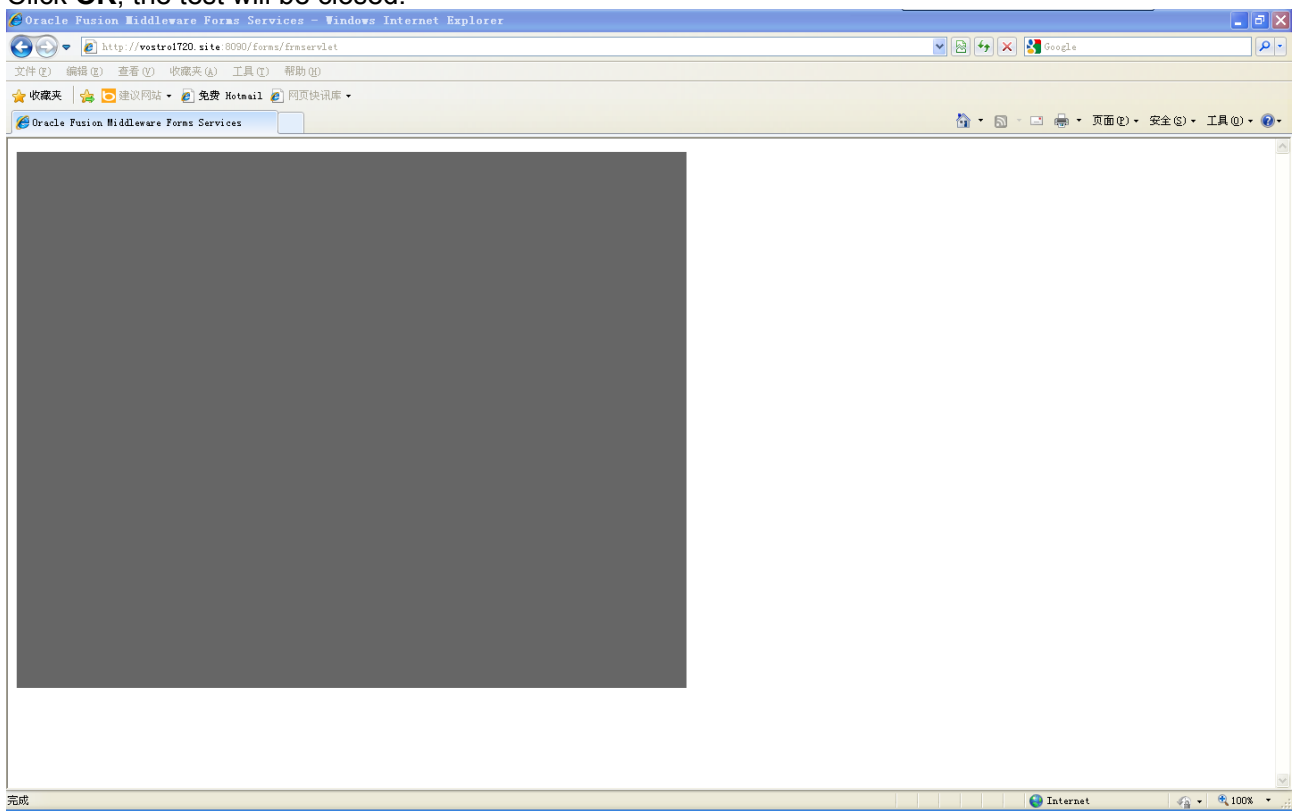
4. Tests for Forms

a. Access the Forms URL http://hostname:<webcache_port>/forms/frmservlet, a page similar to the one below will be displayed.



(**Note:** The firefox browser cannot display Forms servlet page, although added java plugin. IE looks good.)

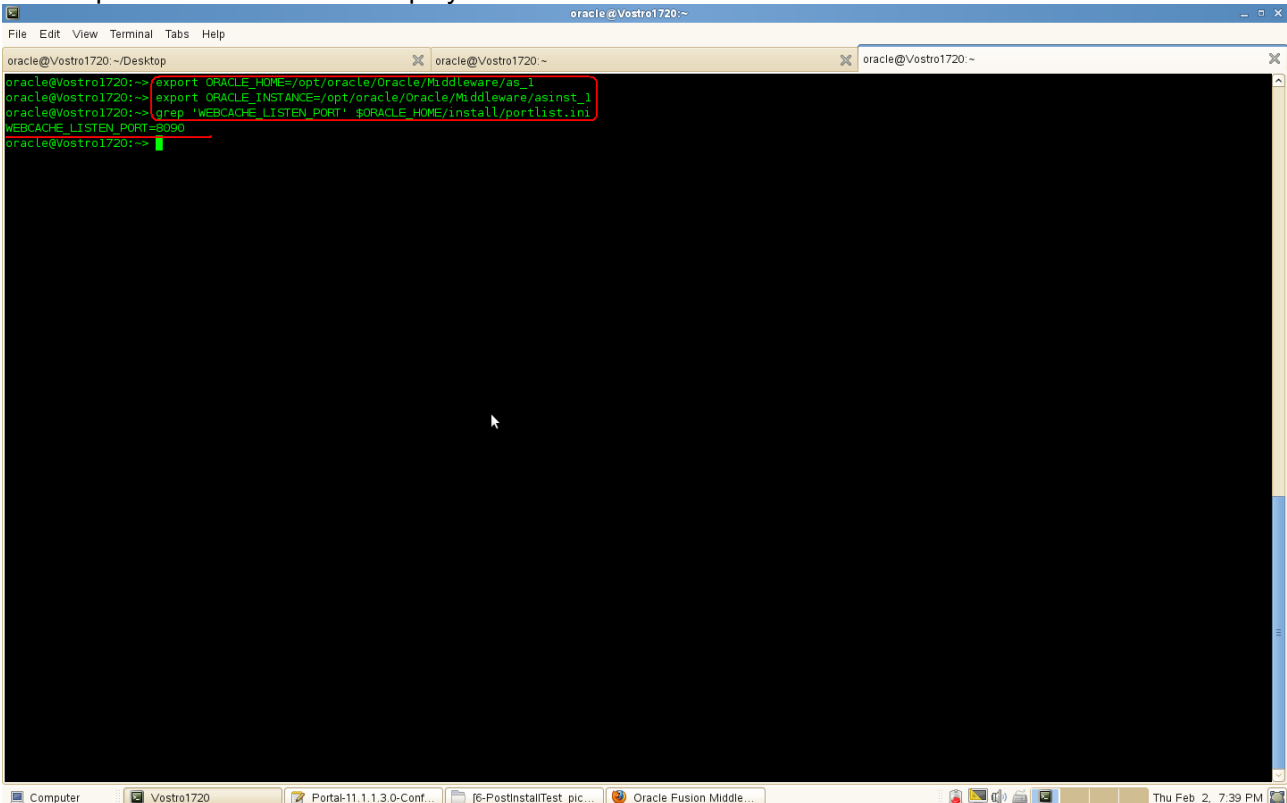
Click **OK**, the test will be closed.



b. Forms Demo:

(**Note:** Before proceeding with the following tests for Forms Demo, please set ORACLE_HOME and ORACLE_INSTANCE environment variable as provided during installation.)

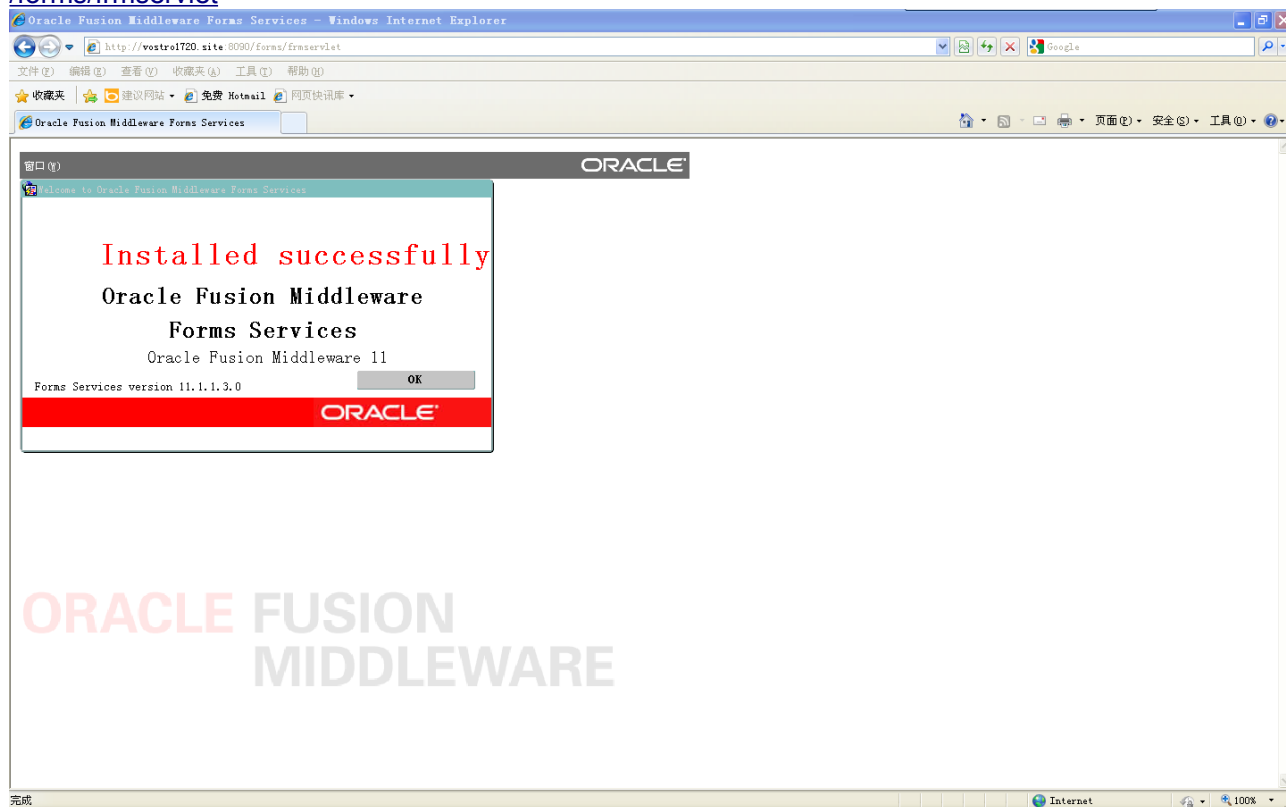
To find out the Oracle Fusion Middleware webcache port with command, “\$ grep 'WEBCACHE_LISTEN_PORT' \$ORACLE_HOME/install/portlist.ini”, the output should be the one displayed as below.



```
oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~
oracle@Vostro1720:~$ export ORACLE_HOME=/opt/oracle/Oracle/Middleware/as_1
oracle@Vostro1720:~$ export ORACLE_INSTANCE=/opt/oracle/Oracle/Middleware/asinst_1
oracle@Vostro1720:~$ grep 'WEBCACHE_LISTEN_PORT' $ORACLE_HOME/install/portlist.ini
WEBCACHE_LISTEN_PORT=8090
oracle@Vostro1720:~$
```

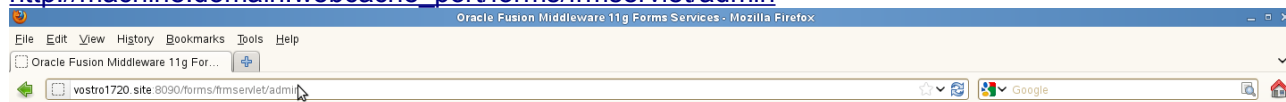
c. Forms Runtime – Listener Servlet:

Invoke Forms Listener Servlet from the following URLs: http://machine.domain:webcache_port/forms/frmservlet



Invoke Forms Listener Servlet Admin URL at:

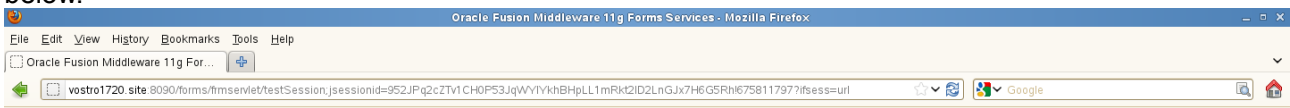
http://machine.domain:webcache_port/forms/frmservlet/admin



Oracle Fusion Middleware 11g Forms Services

[Test servlet engine session support](#)

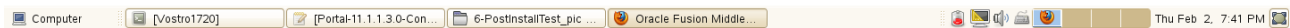
Click **Test servlet engine session support**. Then the session details will be displayed as shown below.



Oracle Fusion Middleware 11g Forms Services

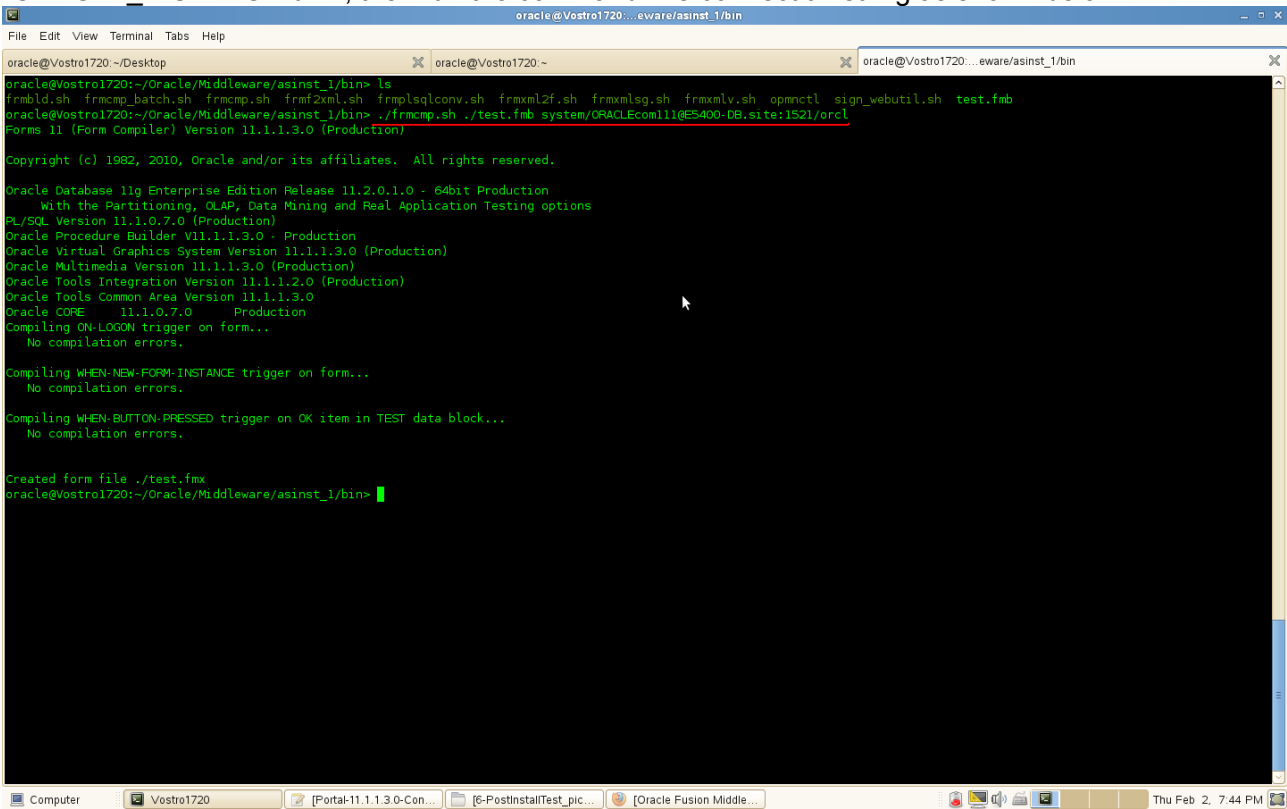
A servlet session is now active.
It is being tracked using en_US.
Test session data is the integer value: -1539255740.
It should remain the same when you click your Browser's Reload or Refresh button.
Cookie header = null

[Forms Servlet Home Page](#)



d. Forms Generator Test

The file test.fmb should present in "\$ORACLE_HOME/forms". You can copy it to "ORACLE_INSTANCE/bin", then run the command line connection string as shown below.



```
oracle@Vostro1720:~/Oracle/Middleware/asiinst_1/bin> ls
frmbld.sh frmcmp_batch.sh frmcmp.sh frmf2xml.sh frmpsqlconv.sh frmxml2f.sh frmxmlsg.sh frmxmlv.sh opmctl sign_webutil.sh test.fmb
oracle@Vostro1720:~/Oracle/Middleware/asiinst_1/bin> ./frmcmp.sh ./test.fmb system/ORAACLEcom11@ES400-DB.site:1521/orcl
Forms 11 (Form Compiler) Version 11.1.1.3.0 (Production)

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Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
  With the Partitioning, OLAP, Data Mining and Real Application Testing options
PL/SQL Version 11.1.0.7.0 (Production)
Oracle Procedure Builder V11.1.1.3.0 - Production
Oracle Virtual Graphics System Version 11.1.1.3.0 (Production)
Oracle Multimedia Version 11.1.1.3.0 (Production)
Oracle Tools Integration Version 11.1.1.2.0 (Production)
Oracle Tools Common Area Version 11.1.1.3.0
Oracle CORE 11.1.0.7.0 Production
Compiling ON-LOGON trigger on form...
  No compilation errors.

Compiling WHEN-NEW-FORM-INSTANCE trigger on form...
  No compilation errors.

Compiling WHEN-BUTTON-PRESSED trigger on OK item in TEST data block...
  No compilation errors.

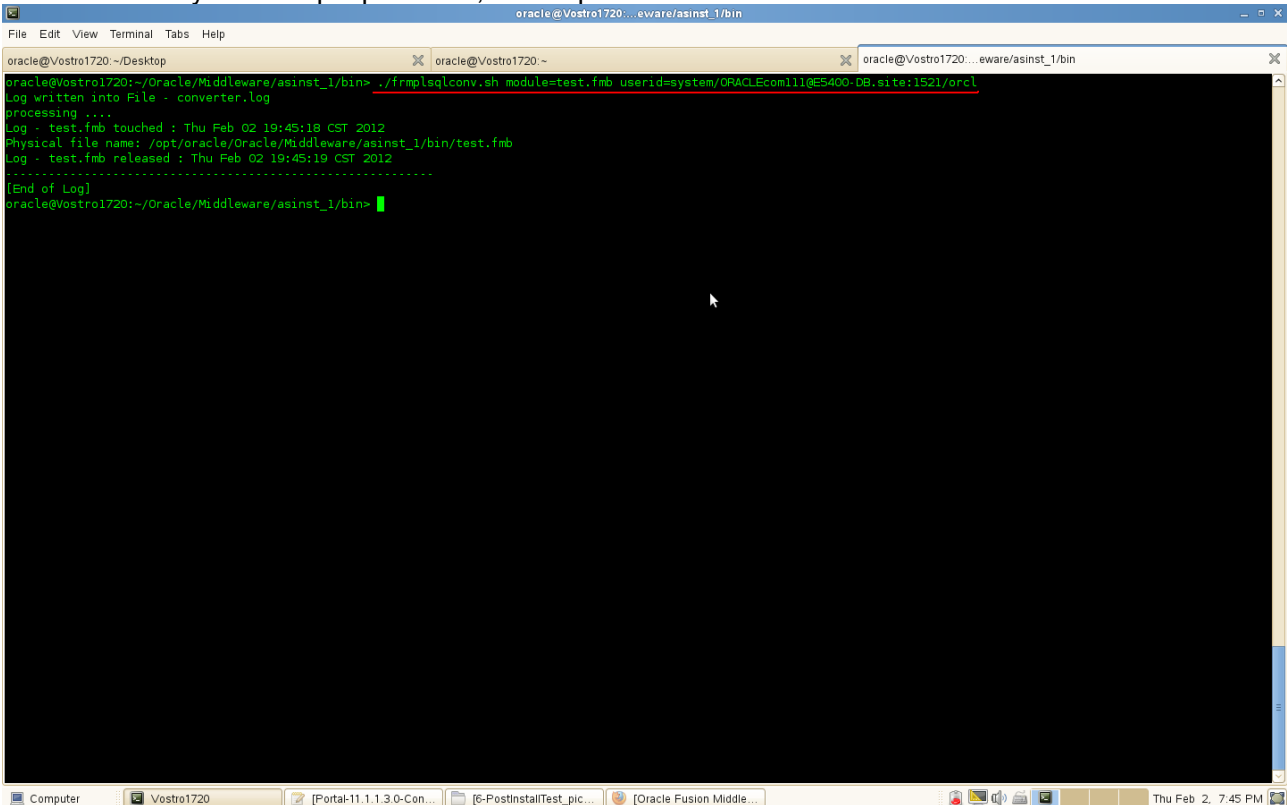
Created form file ./test.fmx
oracle@Vostro1720:~/Oracle/Middleware/asiinst_1/bin>
```

e. Forms Migration Tool Test

The file test.fmb should present in “\$ORACLE_HOME/forms”. You can copy it to “ORACLE_INSTANCE/bin” then run the command line connection string as below:

“ORACLE_INSTANCE/bin/frmpsqlconv.sh module=test.fmb userid=your-oracle-db -username/your-oracle-db-user-password@your-oracle-db-hostname:port/service-name”

Screenshot: By run `./frmpsqlconv.sh` , the output as shown below.



5. Tests for Reports

a. Check Reports standalone Server:

Type `./opmnctl status -l` from the bin folder of `ORACLE_INSTANCE`. Then Start-restart server.

Screenshot: opmnctl tests

```

oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl status -l

Processes in Instance: asinst_1
-----+-----+-----+-----+-----+-----+-----+-----+
ias-component | process-type | pid | status | uid | memused | uptime | ports
-----+-----+-----+-----+-----+-----+-----+-----+
emagent_asinst_1 | EMAGENT | 1256 | Alive | 1373897140 | 12748 | 2:30:33 | N/A
ReportsServer_Vostro1720_asins | ReportsServerComp~ | 1087 | Alive | 1373897139 | 12748 | 2:31:49 | N/A
Discoverer_asinst_1 | PreferenceServer | 805 | Alive | 1373897138 | 89068 | 2:39:04 | N/A
Discoverer_asinst_1 | ServicesStatus | 804 | Alive | 1373897137 | 11460 | 2:39:04 | N/A
webcache1 | WebCache-admin | 639 | Alive | 1373897136 | 148800 | 2:39:29 | http_admin:8091
webcache1 | WebCache | 640 | Alive | 1373897135 | 178412 | 2:39:29 | http_stat:8092,http_invalidation:8093,https_listen:8094,http_lis
ten:8090
ohs1 | OHS | 518 | Alive | 1373897134 | 207192 | 2:39:43 | https:8889,https:8890,http:8888

oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl stopproc ias-component=ReportsServer_Vostro1720_asins
opmnctl stopproc: stopping opmn managed processes...
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl status -l

Processes in Instance: asinst_1
-----+-----+-----+-----+-----+-----+-----+-----+
ias-component | process-type | pid | status | uid | memused | uptime | ports
-----+-----+-----+-----+-----+-----+-----+-----+
emagent_asinst_1 | EMAGENT | 1256 | Alive | 1373897140 | 12748 | 2:33:32 | N/A
ReportsServer_Vostro1720_asins | ReportsServerComp~ | N/A | Down | N/A | N/A | N/A | N/A
Discoverer_asinst_1 | PreferenceServer | 805 | Alive | 1373897138 | 89068 | 2:42:04 | N/A
Discoverer_asinst_1 | ServicesStatus | 804 | Alive | 1373897137 | 11460 | 2:42:04 | N/A
webcache1 | WebCache-admin | 639 | Alive | 1373897136 | 148800 | 2:42:28 | http_admin:8091
webcache1 | WebCache | 640 | Alive | 1373897135 | 178412 | 2:42:28 | http_stat:8092,http_invalidation:8093,https_listen:8094,http_lis
ten:8090
ohs1 | OHS | 518 | Alive | 1373897134 | 207192 | 2:42:42 | https:8889,https:8890,http:8888

oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl startproc ias-component=ReportsServer_Vostro1720_asins
opmnctl startproc: starting opmn managed processes...
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl status -l

Processes in Instance: asinst_1
-----+-----+-----+-----+-----+-----+-----+-----+
ias-component | process-type | pid | status | uid | memused | uptime | ports
-----+-----+-----+-----+-----+-----+-----+-----+
emagent_asinst_1 | EMAGENT | 1256 | Alive | 1373897140 | 12748 | 2:34:07 | N/A
ReportsServer_Vostro1720_asins | ReportsServerComp~ | 6565 | Alive | 1373897142 | 12748 | 0:00:20 | N/A
Discoverer_asinst_1 | PreferenceServer | 805 | Alive | 1373897138 | 89068 | 2:42:39 | N/A
Discoverer_asinst_1 | ServicesStatus | 804 | Alive | 1373897137 | 11460 | 2:42:39 | N/A
webcache1 | WebCache-admin | 639 | Alive | 1373897136 | 148800 | 2:43:03 | http_admin:8091
webcache1 | WebCache | 640 | Alive | 1373897135 | 178412 | 2:43:03 | http_stat:8092,http_invalidation:8093,https_listen:8094,http_lis
ten:8090
    
```

b. Access the Reports URL <http://Hostname:8090/reports/rwservlet> , a page as shown below.

The screenshot shows a web browser window titled "Oracle Reports Services - Servlet - Mozilla Firefox". The address bar contains "vostro1720.site:8090/reports/rwservlet". The page content includes the Oracle Reports logo, a heading "Oracle Reports Services - Servlet Command Help", and a URL for invoking the rwservlet command: `http://yourwebserver/yourserverpath/rwservlet[/command?][args]`. It also lists valid Reports Servlet Commands such as `help`, `showenv`, `showjobs`, `showmap`, `showmyjobs`, `showjobid`, `killjobid`, `parsequery`, `showauth`, `delauth`, `getjobid`, `getserverinfo`, and `killengine`. The footer shows "Copyright (c) 2000-2010, Oracle. All rights reserved." and a "Help" link.

c. Servlet URL (URL's should show appropriate outputs)

1) Check <http://<hostname>:<port>/reports/rwservlet/showenv> as shown below.

The screenshot shows a web browser window titled "Oracle Reports Services - Servlet - Mozilla Firefox". The address bar contains "vostro1720.site:8090/reports/rwservlet/showenv". The page content displays "Reports Servlet Environment Variables 11.1.1.3.0" with "Security Mode Secure". It lists "HTTP Environment Variables 11.1.1.3.0" including SERVER_NAME (vostro1720.site), SERVER_PORT (8090), SCRIPT_NAME (/rwservlet), and various undefined variables. It also shows "Oracle Reports Services - Servlet Environment Variables" with paths for KeyMapFile, DBAUTH, SYSAUTH, server, and DIAGNOSTIC.

Append “showenv?server=<server name>” to the URL. The test page will be displayed as below.

The screenshot shows a web browser window with the following content:

- Browser title: Oracle Reports Services - Servlet - Mozilla Firefox
- Address bar: vostro1720.site:8090/reports/rwservlet/showenv?server=ReportsServer_Vostro1720_asins
- Page title: Reports Servlet Environment Variables 11.1.1.3.0
- Security Mode: Secure
- Section: HTTP Environment Variables 11.1.1.3.0
- Environment Variables List:
 - SERVER_NAME: vostro1720.site
 - SERVER_PORT: 8090
 - SCRIPT_NAME: /rwservlet
 - SERVER_PROTOCOL: HTTP/1.1
 - SERVER_SOFTWARE: undefined
 - GATEWAY_INTERFACE: undefined
 - SERVER_PORT_SECURE: undefined
 - ACCEPT: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
 - REQUEST_METHOD: GET
 - REMOTE_HOST: Vostro1720.site
 - REMOTE_ADDR: 192.168.1.13
 - REMOTE_USER: ORCLADMIN
 - AUTH_TYPE: undefined
 - PATH_INFO: showenv
 - QUERY_STRING: server=ReportsServer_Vostro1720_asins
 - PATH_TRANSLATED: undefined
 - CONTENT_LENGTH: undefined
 - CONTENT_TYPE: undefined
 - HTTP_COOKIE: OHS-Vostro1720.site-8090=4344B5A2D551CD011F94CFA261E3B8A922AA8A32F656AA40413369FA56C2E06356E73BD58EA49A5430328A0C74D87AE1D4C17CBE905CD621A546F80AE739A13EE3A4142494749CAA1A956E3256FBF
 - AUTHORIZATION: undefined
 - USER-AGENT: Mozilla/5.0 (X11; Linux x86_64; rv:10.0) Gecko/20100101 Firefox/10.0
 - REMOTE_IDENT: undefined
 - REFERER: undefined
- Section: Oracle Reports Services - Servlet Environment Variables
- Key/Map File: /opt/oracle/Oracle/Middleware/user_projects/domains/ClassicDomain1/config/fmwconfig/servers/WLS_REPORTS/applications/reports_11.1.1.2.0/configuration/cgicmd.dat
- DBAUTH: /opt/oracle/Oracle/Middleware/as_1/reports/templates/rwdbauth.htm
- SYSAUTH: /opt/oracle/Oracle/Middleware/as_1/reports/templates/rwsysauth.htm
- server: rep_wls_reports_vostro1720_asinst_1
- DIAGNOSTIC: yes

(**Note:** Get Reports standalone Server name: By run `./opmnctl status -l` from the bin folder of ORACLE_INSTANCE.
)

2). Check <http://<Hostname>:<port>/reports/rwservlet/showjobs> as shown below.

Oracle Reports Services - Servlet - Mozilla Firefox

Oracle Reports Services - Servlet

vostro1720.site:8090/reports/rwservlet/showjobs

ORACLE Reports

Reports Server Queue Status

Security Mode **Secure Queue on server rep_wis_reports_vostro1720_asinst_1, on Thu Feb 02 19:53:59 CST 2012**

To kill a current (enqueued or scheduled) job, click on the status icon for the specific job. Then click on Cancel Job button in next page. To get a cached output of a successfully finished past job, click on the Job Name hyperlink of that job (if available)

View

View

Result

Previous Next

Job ID	Master JobID	Job Type	Job Name	Job Status	Job Owner	Output Type	Output Name	Server Name	Queued At	Started At	Finished At
None											

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Computer [Vostro1720] [Portal-11.1.1.3.0-Con...] [6-PostInstallTest_pic...] Oracle Reports Servic... Thu Feb 2, 7:54 PM

Append "showjobs?server=<server name>" to the URL. The test page will be displayed as below.

Oracle Reports Services - Servlet - Mozilla Firefox

Oracle Reports Services - Servlet

vostro1720.site:8090/reports/rwservlet/showjobs?server=ReportsServer_Vostro1720_asins

ORACLE Reports

Reports Server Queue Status

Security Mode **Secure Queue on server ReportsServer_Vostro1720_asins, on Thu Feb 02 19:54:42 CST 2012**

To kill a current (enqueued or scheduled) job, click on the status icon for the specific job. Then click on Cancel Job button in next page. To get a cached output of a successfully finished past job, click on the Job Name hyperlink of that job (if available)

View

View

Result

Previous Next

Job ID	Master JobID	Job Type	Job Name	Job Status	Job Owner	Output Type	Output Name	Server Name	Queued At	Started At	Finished At
None											

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Computer [Vostro1720] [Portal-11.1.1.3.0-Con...] [6-PostInstallTest_pic...] Oracle Reports Servic... Thu Feb 2, 7:54 PM

3). Check <http://<hostname>:<port>/reports/rwservlet/getserverinfo> as shown below.

The screenshot shows the Oracle Reports Services Servlet interface in a Mozilla Firefox browser. The URL bar displays `vostro1720.site:9090/reports/rwservlet/getserverinfo`. The page title is "Reports Server rep_wls_reports_vostro1720_asinst_1 Information".

Server Information:

- Name: `rep_wls_reports_vostro1720_asinst_1`
- Version: `11.1.1.3.0`
- Security Mode: `Secure`
- Running Mode: `In-process`
- Host: `Vostro1720`
- Process Id: `undefined`
- Start Time: `Feb 2, 2012 7:51:00 PM`
- Maximum Queue Size: `1000`

Performance:

- Successful Jobs: `0`
- Current Jobs: `0`
- Future Jobs: `0`
- Transferred Jobs: `0`
- Failed Jobs: `0`
- Response Time(millisecond): `0.0`

Engine Table:

Name	Process Id	Status	Running Job ID	Job Running Time (ms)	Idle Time (seconds)	Jobs Run	Life Remaining (jobs) NLS	Total Running Time (seconds)	Total Idle Time (minutes)
rwEng-0	6763	Ready	n/a	n/a	231	0	50 AMERICAN_AMERICA.WE8ISO8859P1	0	3

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Also append "getserverinfo?server=<server name>" to the URL. The test page will be displayed as below.

The screenshot shows the Oracle Reports Services Servlet interface in a Mozilla Firefox browser. The URL bar displays `vostro1720.site:9090/reports/rwservlet/getserverinfo?server=ReportsServer_Vostro1720_asins`. The page title is "Reports Server ReportsServer_Vostro1720_asins Information".

Server Information:

- Name: `reportsserver_vostro1720_asins`
- Version: `11.1.1.3.0`
- Security Mode: `Secure`
- Running Mode: `Stand-alone`
- Host: `Vostro1720`
- Process Id: `6578`
- Start Time: `Feb 2, 2012 7:49:09 PM`
- Maximum Queue Size: `1000`

Performance:

- Successful Jobs: `0`
- Current Jobs: `0`
- Future Jobs: `0`
- Transferred Jobs: `0`
- Failed Jobs: `0`
- Response Time(millisecond): `0.0`

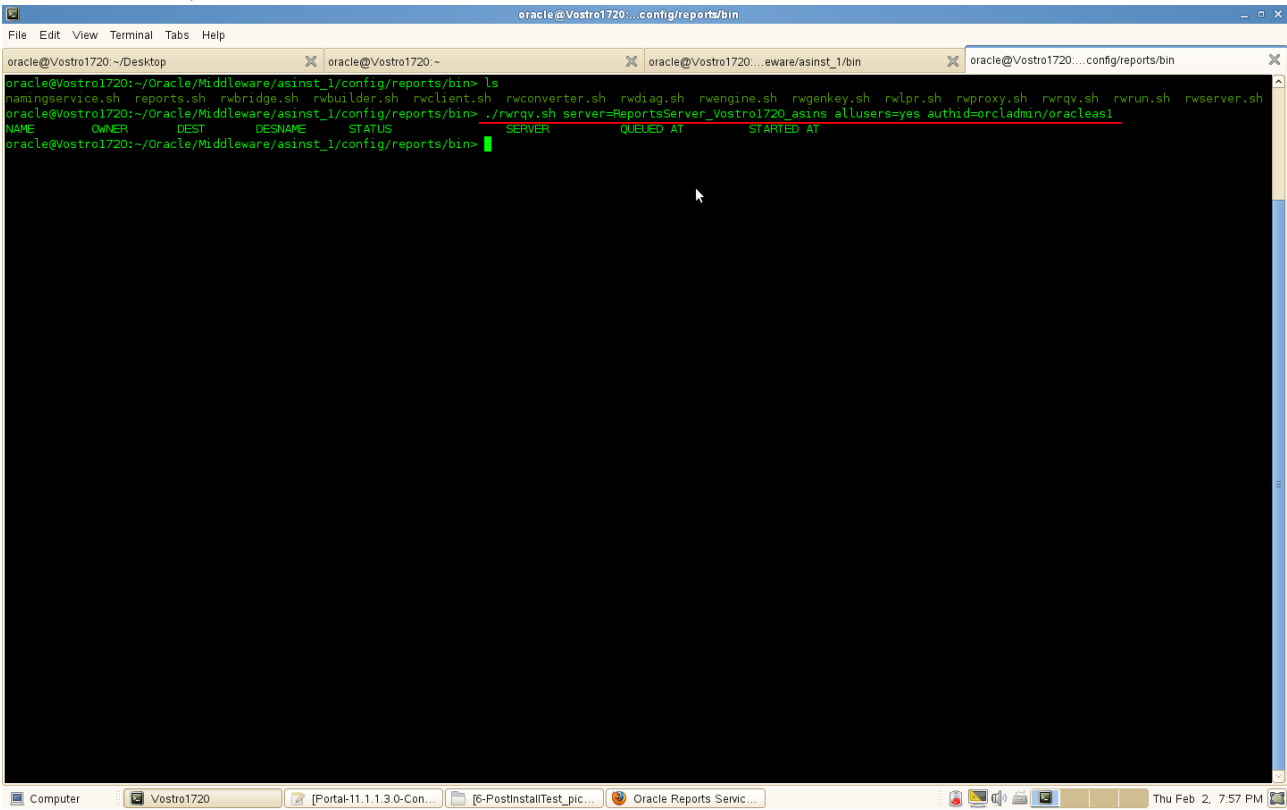
Engine Table:

Name	Process Id	Status	Running Job ID	Job Running Time (ms)	Idle Time (seconds)	Jobs Run	Life Remaining (jobs) NLS	Total Running Time (seconds)	Total Idle Time (minutes)
rwEng-0	6615	Ready	n/a	n/a	357	0	50 AMERICAN_AMERICA.WE8ISO8859P1	0	5

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d. Queue (Jobs should be displayed in the window) Test

Screenshot: Queue command



6. Tests for Discoverer.

Discoverer Plus URL: <http://Hostname:8090/discoverer/plus>Discoverer Viewer URL: <http://Hostname:8090/discoverer/viewer>**Prerequisites:**

1). Export the following environment variables in the server where Portal...Discoverer installed.

```

export ORACLE_HOME=/opt/oracle/Oracle/Middleware/as_1
export ORACLE_INSTANCE=/opt/oracle/Oracle/Middleware/asinst_1
export TNS_ADMIN=$ORACLE_INSTANCE/config
export NLS_LANG="AMERICAN_AMERICA.UTF8"
export JAVA_HOME=$ORACLE_HOME/jdk
export PATH=$ORACLE_HOME/jdk/bin:$ORACLE_HOME/bin:$PATH
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:$ORACLE_HOME/discoverer/lib

```

2). Make sure that you were able to tns ping (from ORACLE_HOME/bin directory) with the alias name mentioned in the tnsnames.ora file (tnsnames.ora file in the location ORACLE_INSTANCE/config). Then run the following command to create test user:

```

#java -jar $ORACLE_HOME/discoverer/lib/eulbuilder.jar -create_eul -connect
system/ORACLEcom111@portal -user EULTEST102 -password EULTEST102 -temporary_tablespace
TEMP -default_tablespace USERS -log test.log

```

```

oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~
oracle@Vostro1720:~/bin
oracle@Vostro1720:~

oracle@Vostro1720:~$ export ORACLE_HOME=/opt/oracle/Oracle/Middleware/as_1
oracle@Vostro1720:~$ export ORACLE_INSTANCE=/opt/oracle/Oracle/Middleware/asinst_1
oracle@Vostro1720:~$ export TNS_ADMIN=$ORACLE_INSTANCE/config
oracle@Vostro1720:~$ export NLS_LANG="AMERICAN_AMERICA.UTF8"
oracle@Vostro1720:~$ export JAVA_HOME=$ORACLE_HOME/jdk
oracle@Vostro1720:~$ export PATH=$ORACLE_HOME/jdk/bin:$ORACLE_HOME/bin:$PATH
oracle@Vostro1720:~$ export LD_LIBRARY_PATH=$ORACLE_HOME/lib:$ORACLE_HOME/discoverer/lib
oracle@Vostro1720:~$ tns ping portal

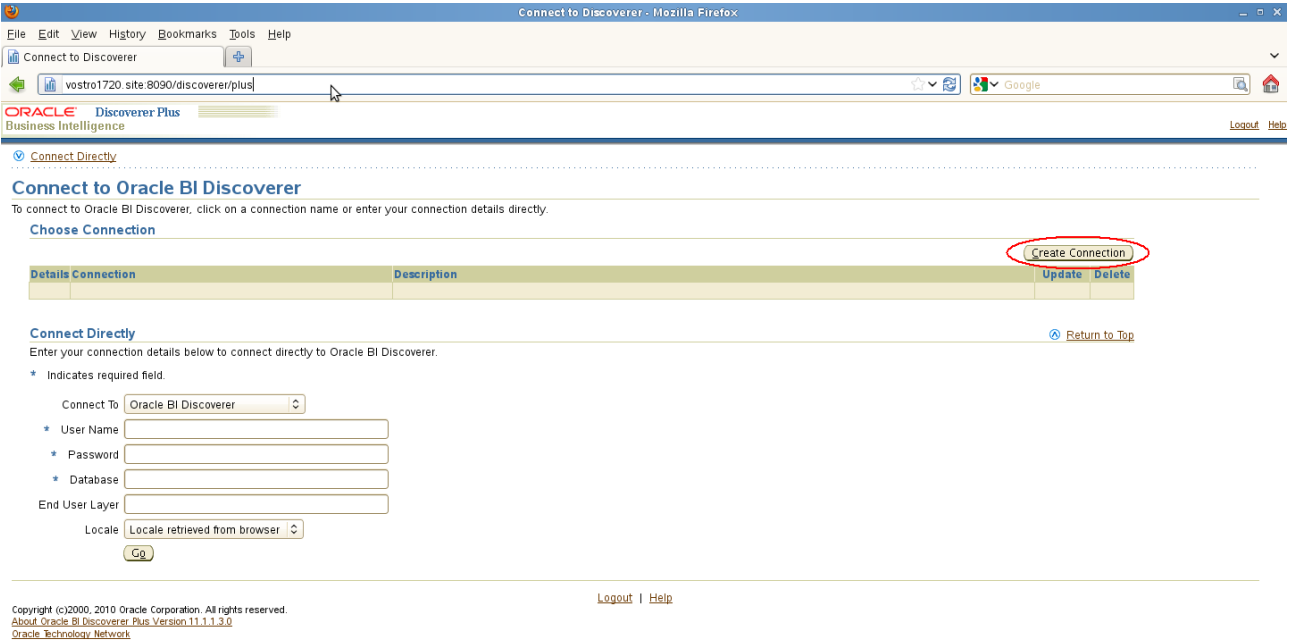
TNS Ping Utility for Linux: Version 11.1.0.7.0 - Production on 02-FEB-2012 19:58:41
Copyright (c) 1997, 2008, Oracle. All rights reserved.
Used parameter files:

Used TNSNAMES adapter to resolve the alias
Attempting to contact (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)(HOST = ES400-DB.site)(PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = orcl)))
OK (0 msec)
oracle@Vostro1720:~$ java -jar $ORACLE_HOME/discoverer/lib/eulbuilder.jar -create_eul -connect system/ORACLEcom111@portal -user EULTEST102 -password EULTEST102 -temporary_tablespace TEMP -default_tablespace USERS -log test.log
create_eul
-connect <*****>
-user EULTEST102
-password EULTEST102
-temporary_tablespace TEMP
-default_tablespace USERS
-log test.log
Command completed.
oracle@Vostro1720:~$

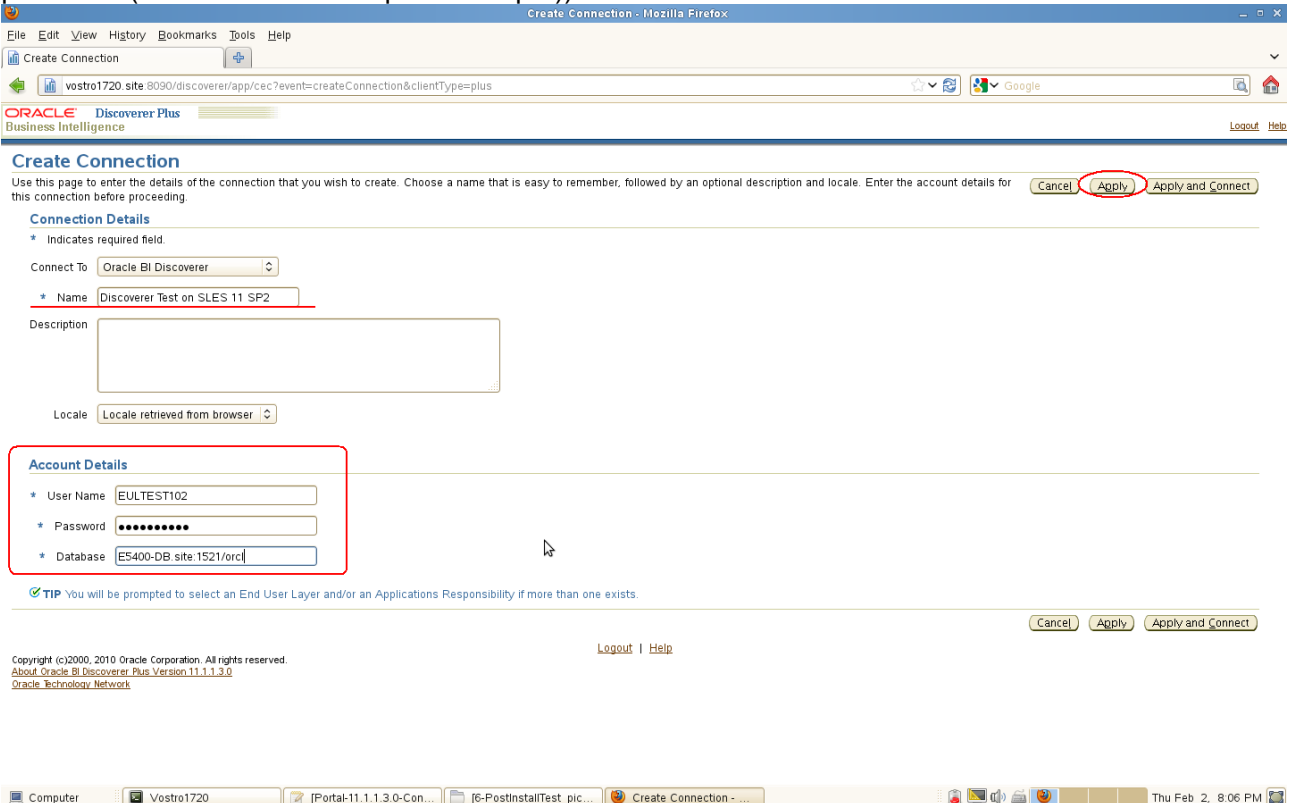
```

a. Tests for Discoverer Plus

Access to Discoverer Plus and click 'Create Connection' button to create a connection for test.



Type the connection details and click **Apply**. (Note: For "Account Details", give the above username & password (mentioned in Prerequisites step 2))



Test account details as shown below, check the info and click **continue**.

Select an End User Layer. - Mozilla Firefox

Select an End User Layer.

ORACLE Discoverer Plus Business Intelligence

Account Details: Select End User Layer

More than one End User Layer exists for the account you have chosen. Please select the one you wish to use below. Cancel Continue

End User Layer
Select an End User Layer.

Connection Name **Discoverer Test on SLES 11 SP2**
 Connection Description
 Locale **English (United States)**
 Database User Name **EULTEST102**
 Database **E5400-DB.site:1521/orcl**
 Connection Type **RELATIONAL**
 End User Layer **EULTEST102**

Logout | Help

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 About Oracle BI Discoverer Plus Version 11.1.1.3.0
 Oracle Technology Network

Click connection string **“Discoverer Test on SLES 11 SP2”** to start connecting.

Connect to Discoverer. - Mozilla Firefox

Connect to Discoverer

ORACLE Discoverer Plus Business Intelligence

[Connect Directly](#)

Connect to Oracle BI Discoverer

To connect to Oracle BI Discoverer, click on a connection name or enter your connection details directly.

Choose Connection Create Connection

Details Connection	Description	Update	Delete
▼ Hide Discoverer Test on SLES 11 SP2			
Connect To Oracle BI Discoverer Connection Key us_a101 User Name EULTEST102 Connection Type Private Database E5400-DB.site:1521/orcl End User Layer EULTEST102 Locale English (United States)			

Connect Directly Return to Top

Enter your connection details below to connect directly to Oracle BI Discoverer.

* Indicates required field

Connect To

* User Name

* Password

* Database

End User Layer

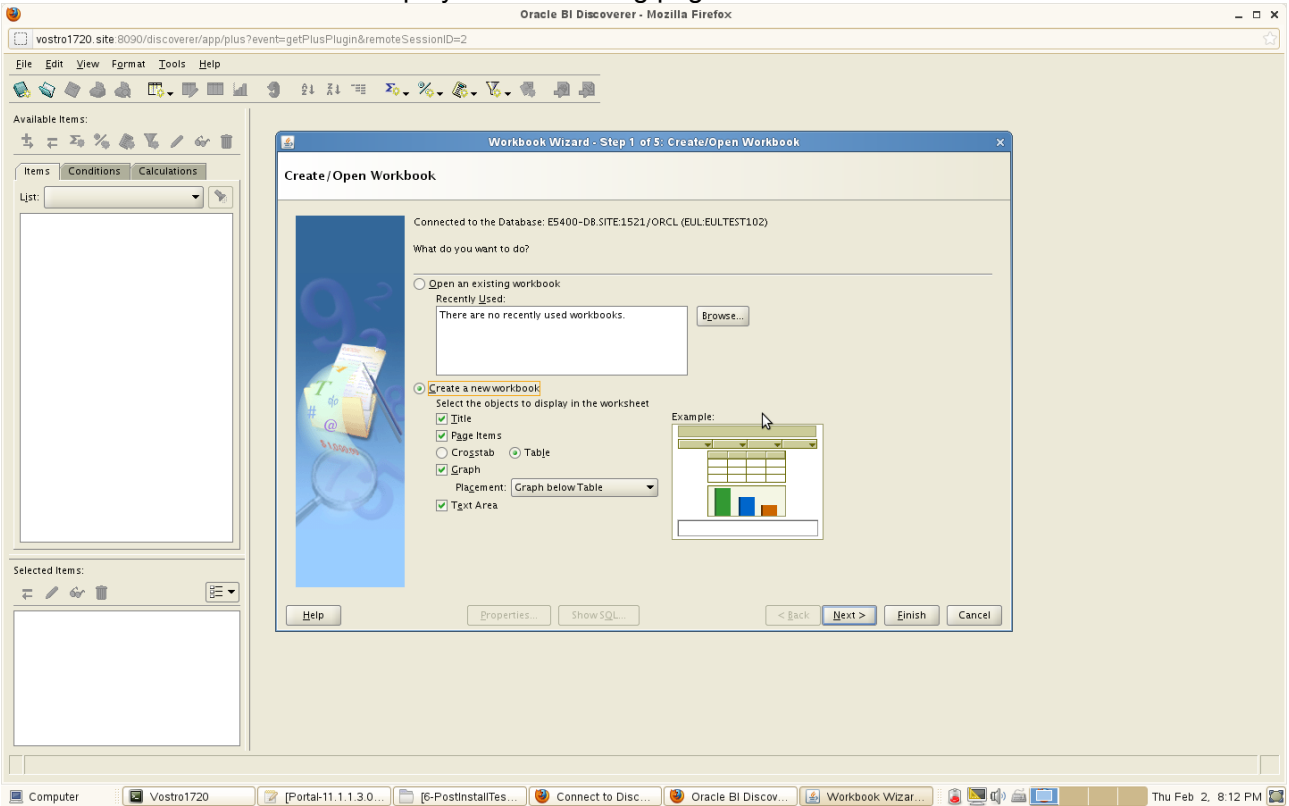
Locale

Logout | Help

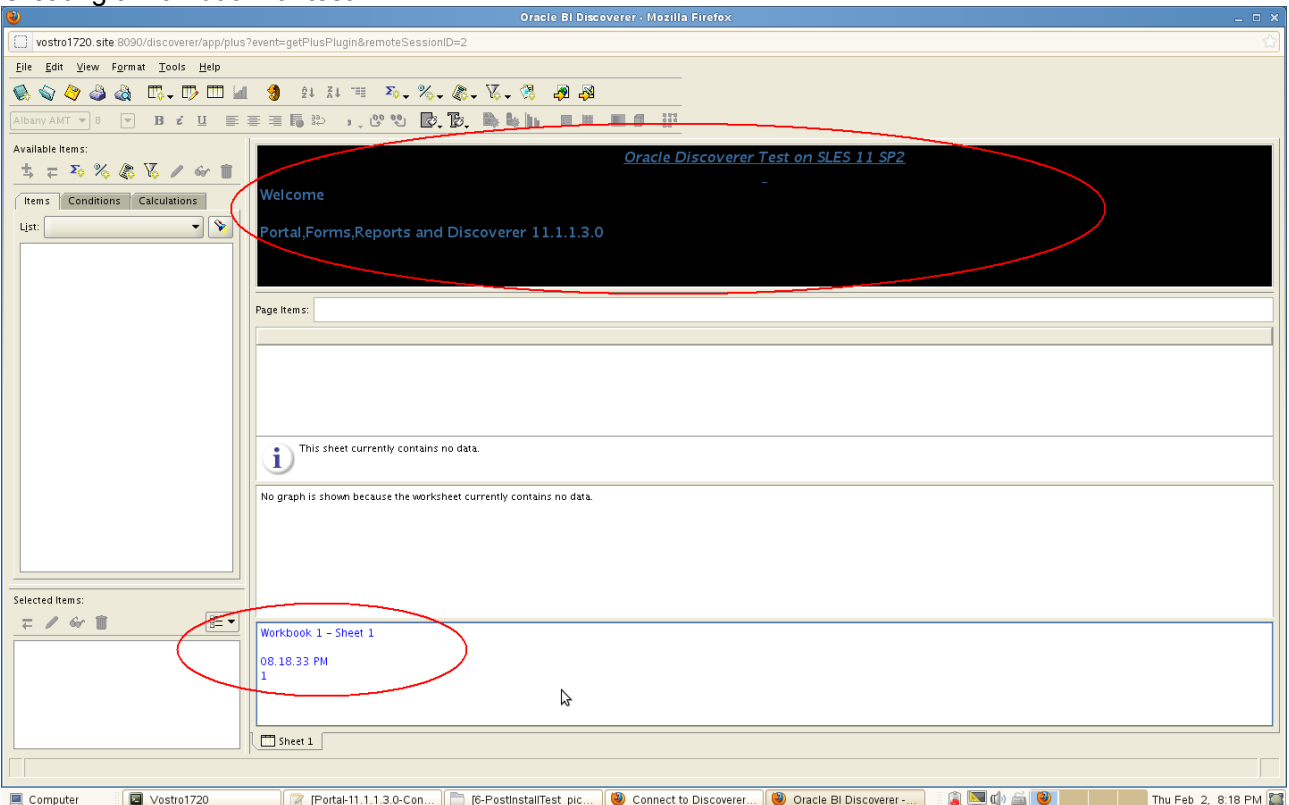
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 About Oracle BI Discoverer Plus Version 11.1.1.3.0
 Oracle Technology Network

(**Note:** You will be prompted to re-enter the connection password if the browser does not save the password. In that case, type the password again, click **Go.**)

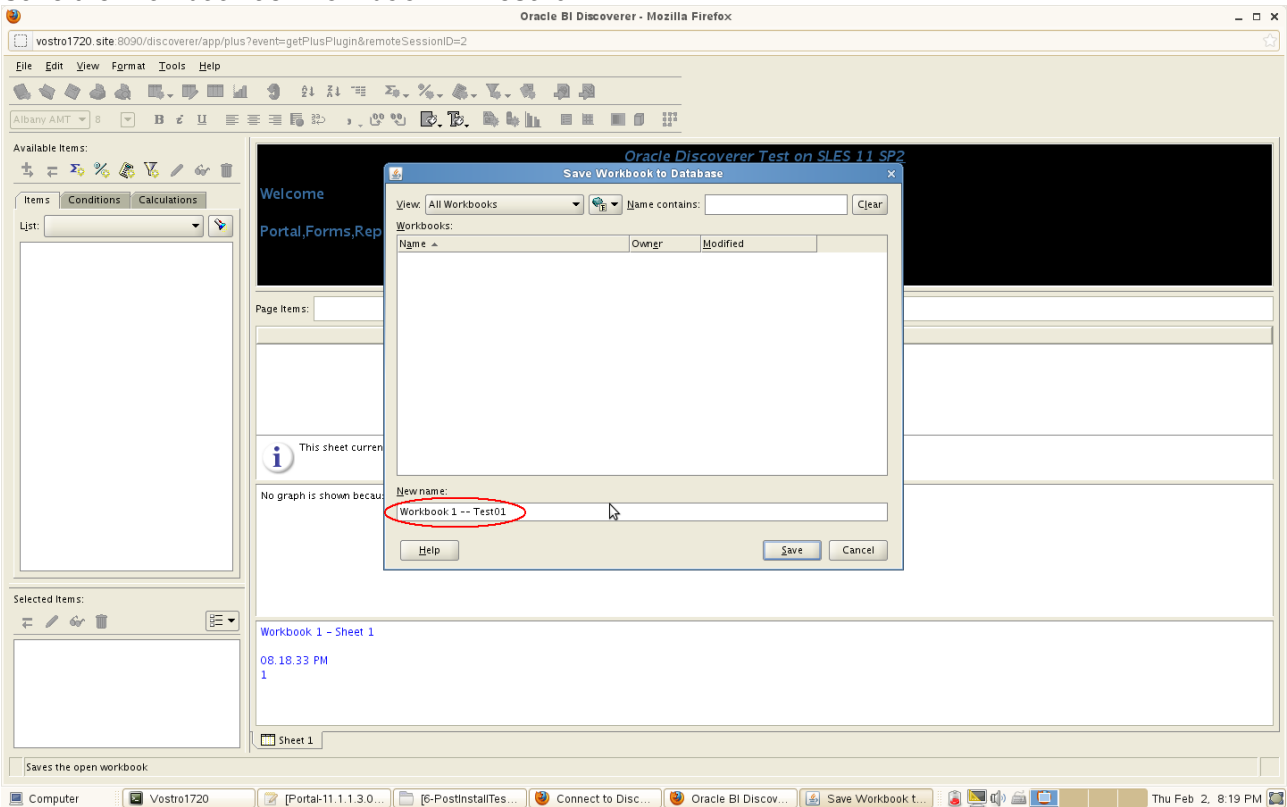
Successful connected will be displayed the following page. Click **Finish** to continue.



Creating a workbook for test.

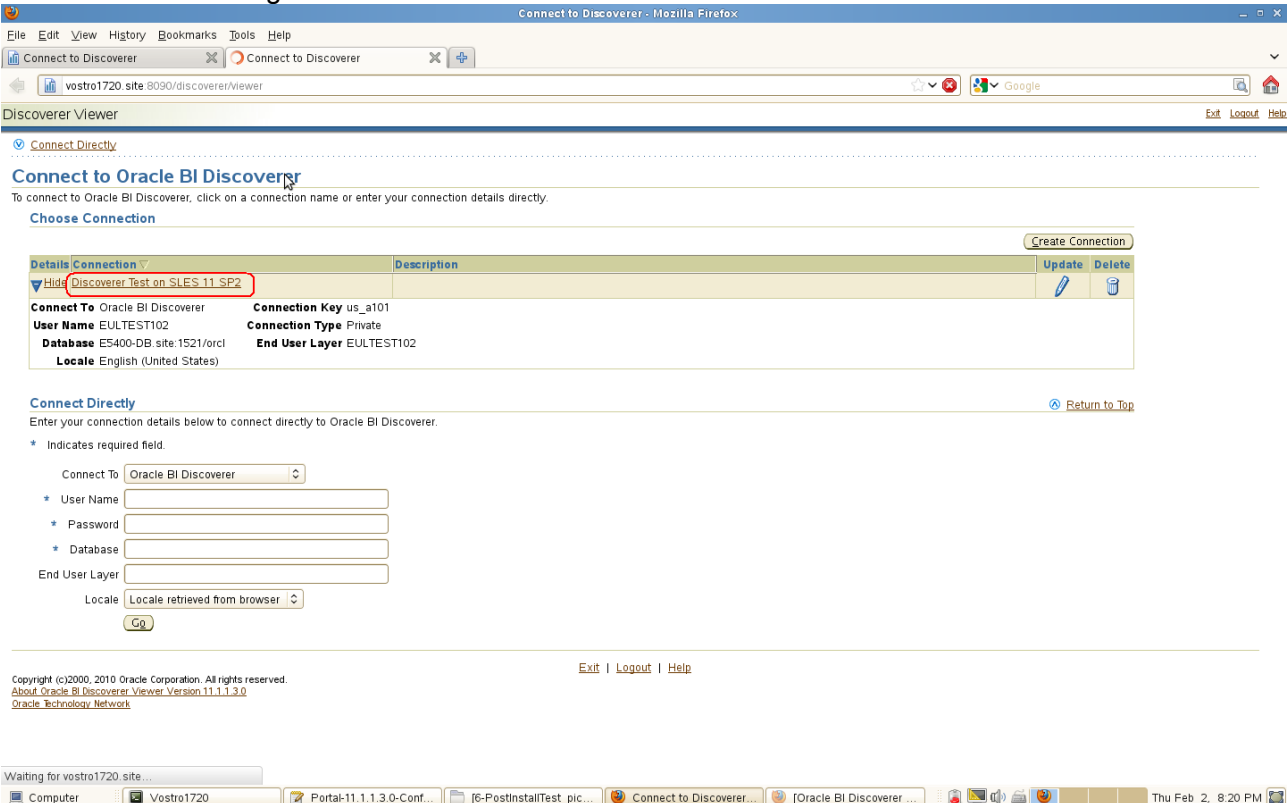


Save the Workbook as 'Workbook 1 - Test101'.

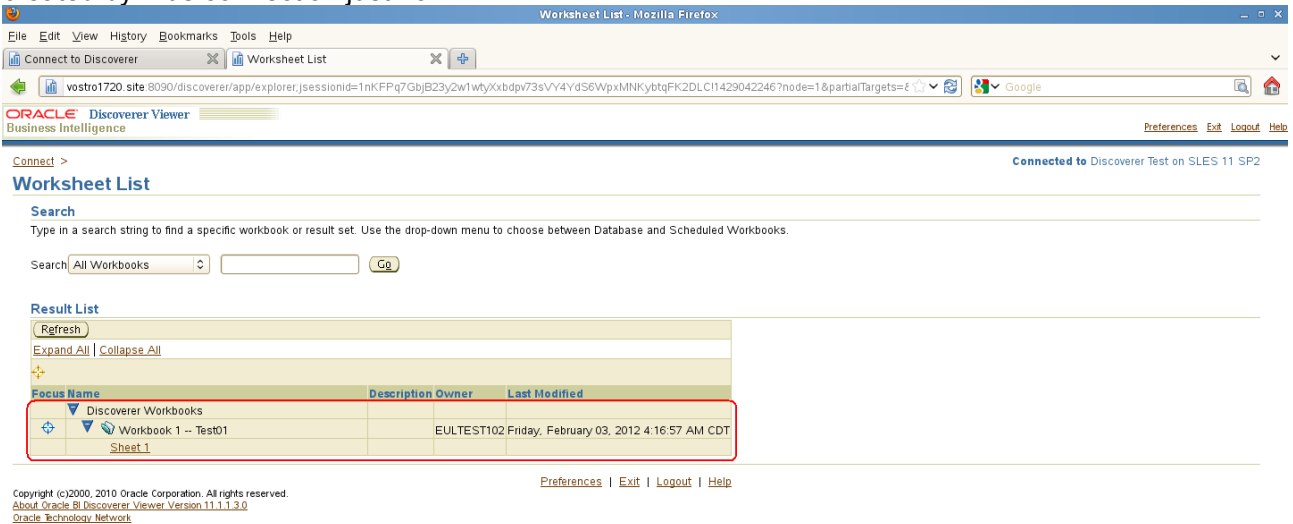


b. Tests for Discoverer Viewer

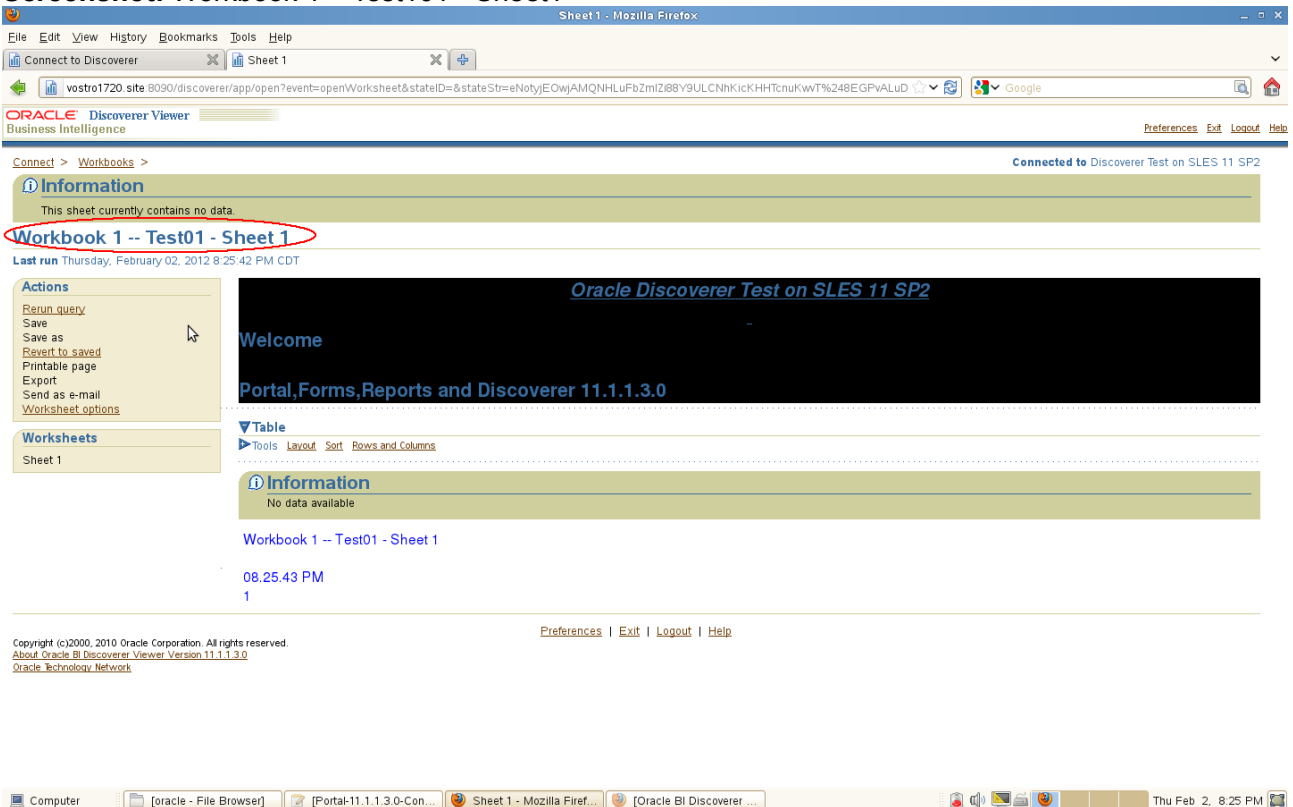
Access to Discoverer Viewer URL: <http://hostname:8090/discoverer/viewer>, the page as shown below. Click connection string "Discoverer Test on SLES 11 SP2" to continue.



Worksheet List page will be displayed as shown below. Click **'sheet 1'** to view the sheet which was created by Plus connection just now.

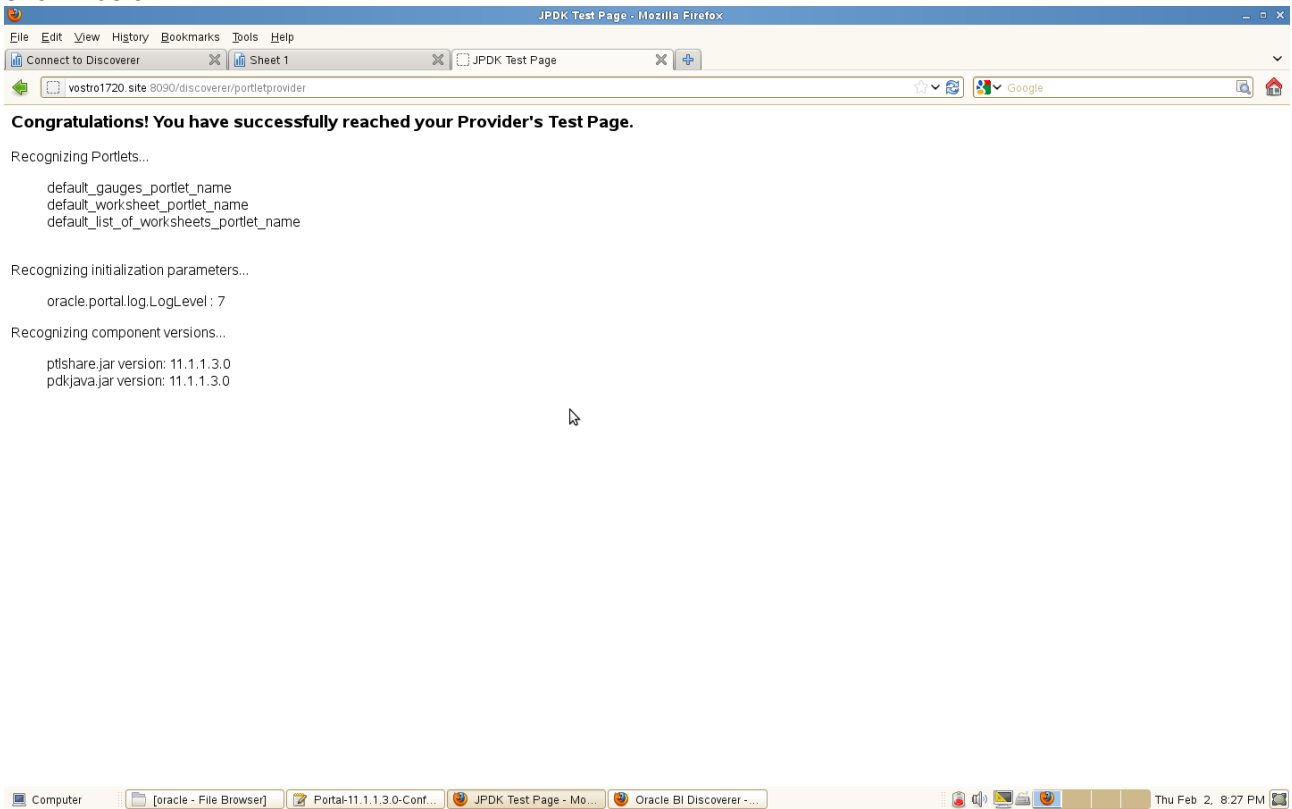


Screenshot: Workbook 1 – Test101 - Sheet1



c. Disco Portlet Provider link should be accessible

Access the URL <http://hostname:<webcache port>/discoverer/portletprovider>, should get a message as shown below.



Environment :

Portal, Forms, Reports, and Discoverer : 11.1.1.2.0 (x86_64)
Portal, Forms, Reports, and Discoverer : 11.1.1.3.0 (x86_64)
Database : 11.2.0.1.0 (x86_64)
OS : SLES 11 SP2 RC3 (x86_64)

End.